

# REPORT

ON THE

# FOREST ADMINISTRATION

OF THE

# CENTRAL PROVINCES

FOR THE YEAR

1912-13

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## No. 306-C., dated Delhi, the 13th March 1914.

File No. 91 of 1914. Serial No. 2.

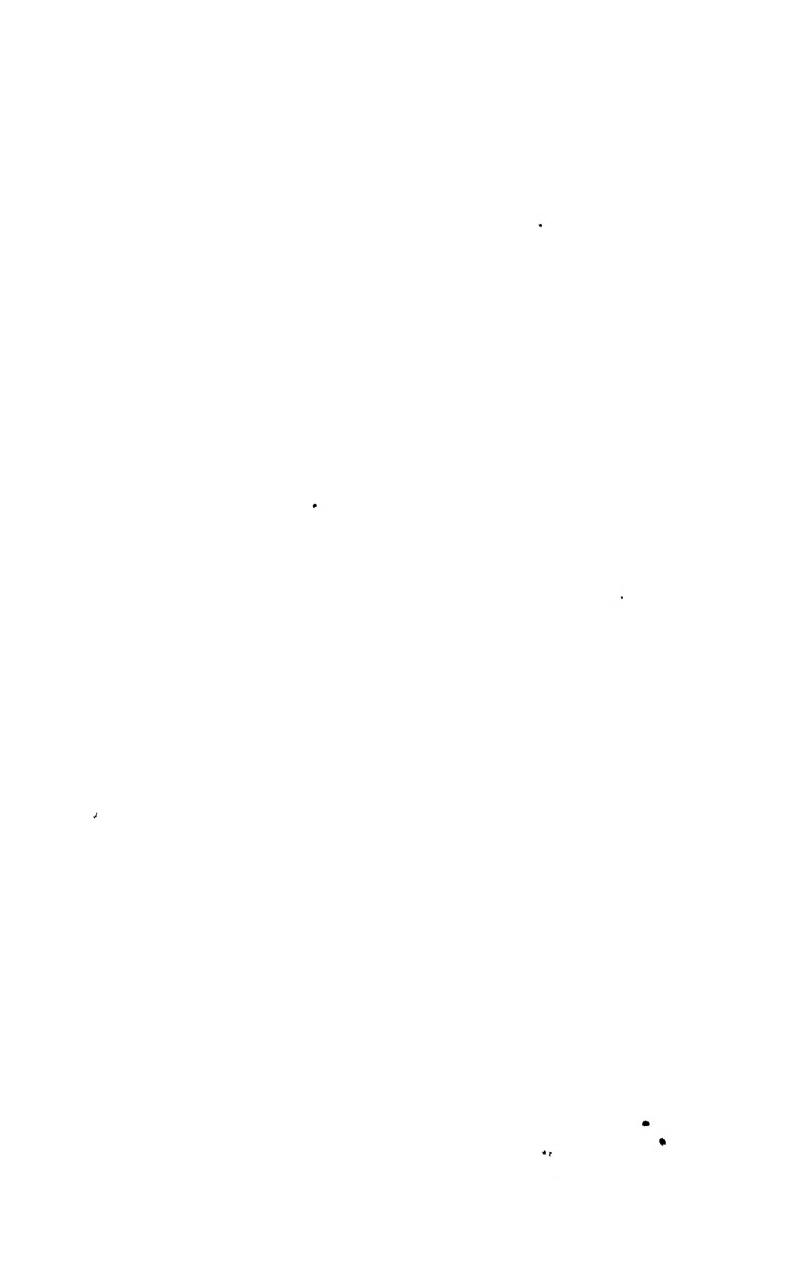
From—The Hon'ble Sir Edward MacLagan, K.C.I.E., C.S.I., I.C.S., Secretary to the Government of India, Department of Revenue and Agriculture,

To-The Hon'ble the Chief Commissioner, Central Provinces, Nagpur.

I am directed to acknowledge the receipt of Mr. Gordon's letter No. 142—XIV—8-11, dated the 16th February 1914, forwarding copies of the report on forest administration in the Central Provinces during the year 1912-13, together with the Chief Conservator's review and the resolution of the Chief Commissioner thereon.

2. The Government of India note with pleasure the steady progress in general forest administration, particularly as regards the expansion in communications, the progress in the provision of quarters for subordinates, the success of fire protection, which has been accompanied by a reduction in cost, and the very satisfactory financial results.

2(3, 4).



# Central Provinces Administration

## FOREST DEPARTMENT

Nagpur, the 12th February 1914.

RIAD -

Reports of the Conservators of Forests on the Administration of the Northern, Southern and Berai Circles for the year 1912-13

Review by the Chief Conscivator of Forests on Forest Administration in the Central Provinces for the year 1912-13

# RESOLUTION

The financial success of the Department is fully evidenced by the Report of 1912-13. The surplus has risen from Rs. 7,52,861 to Rs. 11,78,372, or an increase of over 4 lakhs, while the excess over the average surplus for the quinquennium preceding 1910 is nearly six lakhs of rupees, and the percentage of net to gross revenue has risen from 27 for the quinquennium 1906-07—1910-11 to 29 in 1911-12 and to 38 in 1912-13. These figures go far to remove the reproach of excessive costliness, on a comparison of expenditure with income, which was not long ago brought against the Forest Department in these Provinces.

All Circles have shared in this satisfactory increase, but the Chief Commissioner notices with especial pleasure the recovery made in the Southern Circle, where, excluding grass operations for Bombay, expenditure rose by Rs. 8,571 only as compared with an increase of Rs 2,41,398 in revenue. This satisfactory position must be considered as the beginning of the return due from the forests for a long period of nursing and care. The increase in communications has enhanced the value of forest produce, and with continued attention to this first necessity for satisfactory exploitation, the Chief Commissioner confidently expects in normal years a steady expansion of the surplus.

The reorganisation of the subordinate establishment has long been felt as a crying need of the Department, but has been delayed until forest revenues should show sufficient recovery to warrant the high expenditure involved. In view of the increased revenue and the financial position shown by the report of the current year, the Chief Commissioner has been able to submit for the approval of the Government of India orders giving effect to such parts of this long-required reform as relate to Forest Rangers and Forest Guards. The remainder of the scheme must be left over for a future occasion. The pay of the clerical staff also needs improvement, but this can probably be effected at small cost by a reduction in the number of clerks, accompanied by an improvement in the pay of the posts retained

2. By far the most important contributories to the largely increased receipts are the teturns received from timber and grazing, especially the latter. The increase in grazing receipts is due to the introduction of new rules and enhanced rates in the Central Provinces. This measure caused some dissatisfaction

among the people, and the total number of cattle which grazed in the districts under the new rules fell by 10 per cent. but the Chief Commissioner is fully prepared to accept the assurances of local officers that the new rates are not burdensome to the people. Even now the rate for bond fide plough-cattle is only from one to two annas, except in the seriously overgrazed Nagpur-Wardha forests and in certain areas of Nimar, where rates of three and tour annas respectively are taken, and for these small sums a cultivator may graze an animal, if he so desires, for a whole year. But there is one important matter, in connection with the grazing rules, to which the attention of district officers has been especially directed, and which the Chief Commissioner desires to bring again to their notice, and that is the necessity of ensuring that the people thoroughly understand the rules; if they are not properly understood by the villagers, the result is to place undesirable power in the hands of low-paid subordinates.

The Conservator. Southern Circle, brings to notice that at present concessions are based on the number of working ploughs, irrespective of area, and that this gives an opportunity for patwaris to abuse their position by showing an altogether fictations number of norking ploughs as possessed by cultivators. The matter is receiving the attention of the Administration.

- the Province as a whole, the highest incidence being, as usual, in Berar, where in the C Class areas it was less than one acre. It might have been expected that, in Berar at any rate where the grazing incidence is so high, the policy of "cheap grass and dear grazing" would have fostered the practice of laying in fodder for stall-feeding. But the experiments, which were continued again in conformity with the orders in last year's Resolution, were somewhat disappointing in all three Circles. In the Damoh District the Agriculture Department gave advice as to the species of grass to be pressed, but out of 96 tons cut and 71 baled, only 4½ tons baled and 8 tons loose were sold to agriculturists. In the Southern Circle the results were better, but only 2 tons were sold to agriculturists, the remainder being disposed of elsewhere. In the Berar Circle the results were more satisfactory, and 174 tons were disposed of to agriculturists as against 476 to others. Progress, however, in the introduction of an innovation of this kind must necessarily be very slow, and the Chief Conservator of Forests would appear to think. It must be remembered that even if the operations does not think that the outlook is so unpromising as the Chief Conservator of Forests would appear to think. It must be remembered that even if the operations do not bring in a good financial return, still they repay the expenditure laid out on them, and if by degrees the cultivator can be brought to see the advantages of the system, a good deal will have been achieved, and he will have one more weapon in his armonry for defence in times of scarcity. The Chief Commissioner considers that the matter is deserving of further experiment.
- 4. Good progress was made during the year with the demarcation of boundaries, particularly in Saugor, where in the last three years a great deal of useful work has been done in rectifying unsuitable boundaries by exchanges of forest with privately owned areas in this way, without any appreciable loss of forest areas, boundary lines have been reduced by 90 miles and 1,136 pillars eliminated. The Chief Commissioner thinks that there must be scope in many other districts for measures of this kind, which result in a saving of expenditure on the maintenance of boundaries, and of trouble to the villagers whose lands are adjacent to the forests. In Berar good progress has been made in the disforestation of the small C Class areas, which are not worth administering as Government forest, but are useful as additions to the village grazing grounds.

No working-plans were published during the year, but orders were passed on the reports of the special Revenue Officers in connection with the Nimar, Chhindwara and Bilaspur Plans. Pending the revision of the Melghat Working-plan, which is now in progress, special steps have been taken to ensure that the inhabitants of the recently distorested villages in the Melghat shall continue to seceive the forest concessions which they were formerly granted

5. The expenditure on communications rose by Rs. 29,949, three-fourths of the excess being due to the construction of new works, chiefly in the Berar Circle. No less than 210 miles of regular cart roads were constructed with numerous other coupe and feeder roads, and 234 mile of alignments were effected. The construction of these works should do much to open up the forests and exploit inaccessible tracts such as the Sonewani Range in Balaghat or the South Sihawa Range in Raipur. The difficulties of crossing the Wainganga river in Chanda, which have hitherto prevented the proper exploitation of the Allapilli teak-torest, are now being met by the construction of a substantial causeway by the Public Works Department at a cost of Rs 35,000.

The outlay on tanks and wells fell by Rs. 10,000 during the year. It is reported that few, it my, tanks are required in the Southern Cucle for watering cattle, but in the Berar Circle wells are urgently required. The experiment of building temporary bunds as was done in Nima, should alford useful results, and the Chief Commissioner would like to see it continued. At the same time, Mr. Crump agrees with the Chief Conservator that it may well be worth while to construct more permanent bunds. If suitable sites are available, permanent barrages of water-ways will probably be cheaper, in the long run, than temporary operations which have to be annually renewed

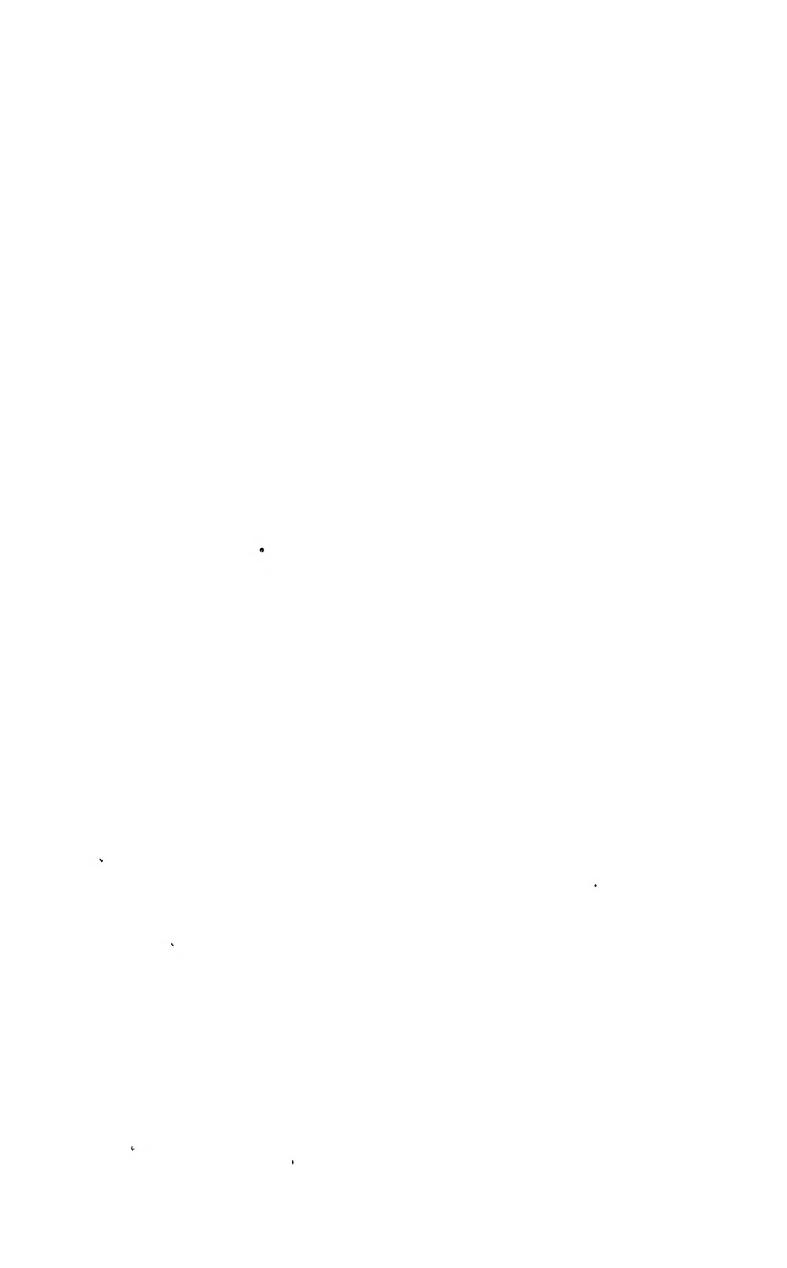
- of fire cases, which have fallen by 30 per cent, due no doubt in some part to the character of the season and the early rainfall. The number of offences under other heads has, however, riven but it would appear that under the head "mauthorised tellings" there has been an increase rather of cases reported than of actual oftences. As might have been expected from the introduction of the new grazing rules, cases of unauthorised grazing have increased; but as the people become accustomed to the new rules, this tendency should disappear, and it may be hoped that the increase is only temporary. In Berar the scarcity of fodder apparently led people to graze their cattle in closed areas with the hope of escaping detection. As pointed out by the Chief Conservator, to assess compensation in such cases at a figure little higher than the fine recovered at a cattle-pound is directly to encourage offences; if the offender escapes detection, he gets his grazing free; if he is caught, he is no worse off than if his cattle had been sent to the pound. The penalty assessed should, therefore, be sufficiently high to he a real deterrent.
- 7. The Chief Commissioner congratulates the Department on the satisfactory working of the year, and his thanks are due to Mr. Hart and Mr. Hill for the continued efficiency shown in the administration of the Department, and to the other officers whose names have been brought to his notice,

ORDER.—Ordered that a copy of this Resolution be submitted to the Government of India, Revenue and Agriculture Department, and that a copy be forwarded to the Chief Conservator of Forests, and to the Conservators of Forests, Northern Circle, Southern Circle, and Berai Circle, for information and guidance; also, that it be published in the Supplement to the Central Provinces Gazette.

J. HULLAH,

Third Secretary to the Chief Commissioner,

Central Provinces.



# REPORT

ON

# FOREST ADMINISTRATION

IN THE

# F. RAIL TRIVING 'S AND INERAR.

FOR ILLE YEAR 1912-13.

# CHAPTER I.

CONSTITUTION OF STAFE FORESTS.

3 CILOR I -AI FERATION IN AREAS (FORM NO 7).

#### MORTHERN CIRCLE.

1. Form No 7 show the charges in forest areas during the year, the net result bring a decreas of 1,821 acres or 2.8 square miles in the total area which was 7,35° equal miles as against 7,354 at the close of the preceding year.

#### 2. The details are as follows --

Mandla (North and South) Division.—The area was reduced by 990 acres due to correction of errors in previous years.

Jubbul por e-Narsi coppur (old) Divis on -The area was increased by 20 acres in the Dhanwahi range which had been left out by the survey party.

Damoh Fighty acros were disforested in exchange for an equal area of the malguzari land afforested during the year, the net difference being nil.

Sauger—In all 739 acres were added and 1,319 excluded, the net result being the decrease of 580 acres. The details of changes are (1) 19 acres were added and 4 deducted due to correction of area in accordance with the figures of forest surveys, (2) 48 acres were excluded in conformity with the nativation for disforestation issued as far back as 1896 which has overlooked at the time and in succeeding years, (3) area of the Rahatgarh block was reduced by 164 acres in 0 dot to form a separate block, which now constitutes a new block and (4) 03 acres were disfore ted in exchange for 256 acres of malgurari land in 0 der to improve the forest boundaries. For the purpose of effecting this improvement a special officer (Mr. Sarwate, Extra-Assistant Conservator of Forests) has been deputed since October 1912. In that direction great improvement has been effected within the part three years since the existing boundary lines have been reduced by 90 miles and no less than 1,136 pillars have been dismantled.

In the Hoshangabad Division, although the malguzari villages of Indpura and Singola, purchased during the year, have been handed over to the Forest Department, yet their acquisition was not formally notified during the year

Scout.—Fifty-time acres were excluded and 7 added owing to the rectification of boundaries with reference to the settlement maps. Also 17 acres were deducted as a notification of disforestment issued in 1902 was discovered to have been overlooked. The net result was a reduction in area of 69 acres.

Chhindwara. -- The total area was reduced by 202 acres, viz, by disforesting 204 acres as wrongly included in the reserved forests and 9 acres in exchange for 11 acres of the malguzari forests to improve the existing boundary.

### B-I Class.

3. This class of forests is restricted to the Mandla and Chhindwara Divisions and was not affected by any change during the year. Steps have, however, already been taken with a view to disforest the whole of the area in the Mandla Division and the greater portion of it in Chhindwara, as it consists entirely of regularly settled ryotwari villages.

#### SOUTHERN CIRCLE.

4. The net results of the changes during the year as exhibited in Form No. 7 show a net decrease of 23,790 acres or 37 square miles. Under A Class forest 9,046 acres were afforested for the first time and 7,235 acres disforested mostly on account of exchange of area. An area of 6,497 acres was transferred from B Class to A Class and 1,575 acres of A Class forest transferred to the charge of the Irrigation Department. The total increase in A Class forest amounted to 13 square miles. Under B Class forests 615 acres were added during the year, 26,216 acres were disforested, making a decrease of 50 square miles or a total decrease in the forests, under charge of the Department, of 37 square miles.

#### BERAR CIRCLE.

5 The total area of Government forests of all classes in the Circle stood at 6,255 square miles at the close of the year as compared with 6,682 at the commencement, thus giving a net decrease of 427 square miles.

In Berar proper the A Class forests show a net gain of 806 acres. In Amraoti 648 acres were transferred from C Class as being suitable for the formation of permanent babul bans. In Buldana 70 acres were afforested to improve the boundary and extend the cultivation of Palasdhag forest village. In Yeotmal two areas aggregating 86 acres were obtained by exchange with some H Class lands, while 20 acres were reduced by correction of area on resurvey. In Akola three areas aggregating 38 acres were afforested in part exchange for an area of 50 acres in order to get rid of internal cultivation and to improve boundaries, while two acres were required for the construction of the Murtizapur-Yeotmal Railway and were disforested.

- 6. In B Class forests no changes occurred.
- 7. In C Class forests the net decrease amounted to 36 square miles: the details being as follows:—

In Amraoti 684 acres of babul bans were transferred to A Class, as mentioned above, and 8,054 acres in small blocks of less than 160 acres each were disforested for village free grazing lands. In Buldana 11,002 acres in small blocks were disforested for free grazing and 24 acres were disforested in exchange to improve the boundary, while 244 acres were received by transfer from Akola Division for convenience of management. In Yeotmal 5,344 acres were received by transfer of several villages from the Akola Division for administrative reasons, 427 acres were added and 331 acres lost in various blocks by correction of area on resurvey. In Akola 12 acres were afforested in exchange as part of the transaction mentioned under A Class, 3,510 acres in small blocks were disforested principally for free grazing areas while, as mentioned above, 244 acres were transferred to Buldana and 5,344 acres to Yeotmal for administrative reasons. Of D Class 6,760 acres in Akola were disforested principally for free grazing areas.

Good progress was made in carrying out the policy of disforesting small blocks of C Class forest, thus removing a cause of considerable trouble to the people and difficulty in administration. Proposals for similar disforestments in the Morsi taluq of Amraoti were submitted during the year but had not received sanction before its close. Proposals for Yeotmal are under preparation and will be submitted shortly. When these are approved and notified this work will be complete for Berar and the forests will have attained the figure of area at which they will stand permanently.

In Nimar the area of A Class increased by 1,651 acres owing to recalculation of areas. Of B-I Class 169,530 acres were formally disforested for ryotwari settlement which system had been fully established in this area, and 459 acres were deducted by recalculation of area. In Betul 6,632 acres of A Class and 69,394 acres of B-I Class were disforested for ryotwari settlement, 2,562 acres were transferred from B-I to A Class, and 18 acres were added to B-I Class by recalculation of areas.

The disforestment of A Class was merely an adjustment of areas in Form No. 7. The actual plots disforested were those originally proposed for excision, but when they were finally handed over to the Revenue authorities their areas as ascertained by a detailed survey differed considerably from those which had been entered in the returns of this Department and consequently considerable adjustments were needed between A and B-I Classes. In Betul 4,981 acres remain for disforestment which will be performed when the plots are sufficiently settled to be taken over by the Revenue Department.

# SECTION 2.-FOREST SETTLEMENT (FORM No. 8).

#### NORTHERN CIRCLE.

8. '13, '4 and '01 square miles were finally settled, respectively, in the Damoh, Saugor and Chhindwara Divisions, and 2'68, '45, 2'08, '35, '28 and '34 square miles still remained under settlement at the close of the year in the Mandla, Damoh, Saugor, Jubbulpore-Narsinghpur, Seoni and Chhindwara Divisions. The Deputy Commissioner was the Settlement Officer in all cases.

The final notification constituting as reserved forests '35 square miles of unsettled area, referred to in the last Administration Report, was not issued although the settlement has been completed.

'24 square miles under settlement in the Hoshangabad Division appear to have been previously constituted reserved forests and action is, therefore, being taken to cancel the present notification.

28 square miles shown under settlement in the Seoni Division and referred to in the last report, were required to improve the condition of fire protection in the Ugli range and after the principal malguzar had eventually come to terms his action was opposed by some of his shareholders who do not seem inclined to arrive at an agreement. It became necessary, therefore, to acquire the land but it has not yet been finally notified as reserved forest.

#### SOUTHERN CIRCLE.

9. Fair progress was made in the work of settling a large number of comparatively small areas. There were two cases involving 35 acres in North Chanda and Nagpur-Wardha which had been shown as outstanding for over a year.

The area of 32 acres in Khutunda (North Chanda Division) has been shown apparently by error as under settlement for the last 18 years, but it was decided as far back as 1896 that it was undesirable to afforest this area, which has accordingly been excluded from Form 8 of the current year.

of certain excised areas to the Forest Department especially in the Garchiroli tahsil. These areas are apparently not occupied by proper villages and some of the cultivation is merely nominal in order to obtain grazing for herds of pastoral tenants of malguzari villages. This abuse is being put a stop to, but he urges the desirability of the examination of these areas by a competent Revenue Officer.

#### BERAR CIRCLE.

and Akola, respectively, while '09, 668 and '72 square miles were taken in hand and were in process of settlement at the close of the year in Yeotmal, Akola and Betul. In all cases the Deputy Commissioner was the Forest Settlement Officer.

In addition to the above, the provisions of the Land Acquisition Act were resorted to for the acquisition of 3.55 acres in Betul to rectify a boundary, the cost of the acquisition being Rs. 99-4-9, but further proceedings for the forest settlement of the plot were not instituted before the close of the year.

The necessary proceedings under the Land Acquisition Act were instituted in respect of various plots to be afforested in Yeotmal and Akola, but were not brought to the stage at which the forest settlement procedure could be put in motion within the year.

#### **SECTION** 3.—DEMARCATION (FORM No. 9).

#### NORTHERN CIRCLE.

12. Form No. 9 gives the details of work done and expenditure incurred under this head.

13. The details of classification of work done on the boundary lines are as follows:-

		Miles.
(1) Length of lines over which all pillars have been	•••	1,174
put into thorough repair. (a) Length closed without reference to fire protection		5,709
(3) Longth checked with survey maps	•••	1,661
(4) Number of pillars repaired	•••	8.915

- Daniel Hesharachad and Chhirdrara, and sunctioned during the year The You, scheme ha been kept pending until the revision and simplification of boundatie, in conjunction with the revision settlement of the district, is completed.
- The demarcation of new boundaries occurred in Mandla, Saugor and Chhindwara Division only. In Mandla it was undertaken with a view to settle boundary dispute and in Saugor and Chhindwara it was necessitated by the exchange of Government forests with the malguzari areas as also by the establishment of two new forest villages in the latter Division. The work covered 36 miles in length and the total cost was Rs. 137. The whole of this was spent in the Saugor Division, the other two having done it without expense. Four pillars were newly erected in Damoh. 7 in Chhindwara, 62 in Saugor and 5 in Seoni, in the former two without cost and in the latter two at a cost of Rs. 40 and Re. I respectively. 1,169 pillars costing Rs. 613 were reconstructed in the Saugor Division. Owing to the transfer of areas to the malguzari, 467 pillars were dismantled in the Saugor Division at a cost of Rs. 27, and 15 in Chhindwara and 29 in Damoh without cost. The total expenditure incurred on new works under this head amounted to Rs. 818. Besides this 34 were spent on the survey of boundaries but the amount was wrongly charged to A-VIII-e
- 16. 5,709 miles of boundary lines were cleared during the year for Rs. 4,713. This includes 139 miles in the Chhindwara Division cleared without cost, material having been given in exchange for wages. In addition 741 miles were cleared with reference to fire protection and the cost was wrongly debited to demarcation. Rs 123 were spent on widening lines 105 miles in extent, including 31 in the Seoni Division, for which material was removed in lieu of cash payment.
- 17 8,915 boundary pillars were repaired at a cost of Rs 2,624 and in addition 17 were spent on petty repairs to 54 pillars in the Seoni Division. Of these 62 pillars in the Chhindwara Division were repaired by Forest Guards. The above item also includes Rs 252 expended on replacing the wooden posts of 593 pillars by stone slabs in the Jubbulpore Narsinghpur Division. The total cost on old works amounted to Rs. 7,477.
- 18. In the Sauger Division the elimination of superfluous pillars and renumbering the rest was done completely in Blocks Nos 43—48, 50, 69, 98 and 24 and the work in other blocks is in progress
- 19. The revision and resurvey of many of the boundaries in the Hoshangabad Division again could not be undertaken during the year as no officer was available for the purpose.

# SOUTHERN CIRCLE.

- 20 The details of work done and expenditure incurred under this head will be found in Form 9.
- 21. The details of classification of work done on the boundary lines are as follows:—

		Miles.
(1) Length of lines over which all pillars have been put	***	1,844
into thorough repair.		
(2) Length cleared without reference to fire protection	***	2,340
(3) Length checked with the survey maps	***	1,632
(4) Number of pillars repaired	***	9.243

22. The five years' scheme of check of boundaries has been drawn up and submitted for the Bhandara, South Chanda and Nagpur-Wardha Divisions. The scheme for Bilaspur and Balaghat appears to have been worked up to, but has apparently been lost sight of in the case of the North Chanda and Raipur Divisions

The condition of the boundaries in the last named leaves a great deal to be desired and may necessitate the employment of surveyors in the following cold weather.

23. The annual clearing of boundaries, where they are not kept up for fire protection, entails considerable expense. In some cases boundaries are supposed to be kept up by raiyots or malguzars under the terms of their leases, but this is not always done It is probable that if one half or one quarter only of the boundary was taken in hand and cleared annually, in those areas which are open to grazing or not under special fire protection, the maintenance of all boundaries would be well assured

#### BERAR CIRCLE.

24. The details of work done and the expenditure incurred are shown in Form No 9. The total length of boundaries at the close of the year amounted to 14,524 miles which great length is due to the existence of large numbers of small forest blocks in Berar.

Last you the total length of boundary in Nimar was erroneously shown in Column 8 of Form 53 as 640 miles only; the figure is now correctly given as 1,365, after careful check with the maps.

The det ils of work done on boundary lines are as follows:-

		MINES
(1) Length of lines repaired thoroughly		990
(2) Length cleared without reference to fire protection	• • •	904
(3) Length checked with survey maps .	•••	482
(4) Number of boundary pillars repaired	No.	5,131
and in Berar Division		<b>.</b> .
Warlies repaired	. ,,	10,351
Gotas repaired	**	279

25. The five years' scheme of repairs to boundaries was worked upto in all Divisions except Betul with a deficit of 26 miles.

# SECTION 4.—FOREST SURVEYS (FORM No. 10).

### NORTHERN CIRCLE,

- 26. No surveys were undertaken by the Survey of India party during the year, two maps on the scale 1"=4 miles (of Saugor and Seoni) were published during the year; one of Damoh, was in press and one of Hoshangabad was in an earlier stage of preparation.
- 27 The total expenditure incurred on the constitution of State forests amounted to Rs. 28,690 against Rs 8,603 of the preceding year.

### SOUTHERN CIRCLE

- 28. With the exception of surveys by local officers of forest villages in a few divisions, no work under this head was done during the year. A good deal of survey work remains to be done in mapping afforested areas in the Balaghat and Bhandara Divisions, as well as roads and fire lines in the Raipur and North Chanda Divisions.
- 29 The total expenditure incurred on the constitution of state forests amounted to Rs. 8,313 against Rs. 8,328 of the preceding year.

#### BERAR CIRCLE.

30. No. 6 Party (Southern Circle), Survey of India, continued the topographical survey of Berar. In Yeotmal, where the survey is now completed, 124 square miles were surveyed, in Akola 97 square miles and in Buldana 154 square miles, all on the scale of 2"=1 mile. Besides the above plane table surveys of

boundaries on the scale of 4"=1 mile were carried out over 380 linear miles in Akola and 605 linear miles in Buldana. No charges for this survey are debited to the Forest Department.

In the Melghat Division the interior detail of 44 forest villages was surveyed at a cost of Rs. 699.

No other expenditure on regular surveys was incurred, the balance of expenditure incurred being due to the cost of maps supplied.

31. The total expenditure on the constitution of State forests was Rs. 23,505 of which Rs 15,557 was paid to the Melghat Rajas as compensation for forest rights.

# CHAPTER II.

#### MANAGEMENT OF STATE FORESTS.

SECTION I .- REGULATION OF MANAGEMENT (FORM NO 11).

(a) PREPARATION AND CONTROL OF REGULAR WORKING PLANS.

#### NORTHERN CIRCLE.

- 32. New Plans.—The revised plan for the Chhindwara Division was prepared and finally submitted by the Forest Divisional Officer by the end of the year and was forwarded to the Chief Conservator of Forests after its close.
- 33. Old Plans.—The provisions of the sanctioned working plans were adhered to as far as circumstances permitted. As heretofore the prescriptions of the working plan had to be abandoned over a greater portion of the Korai and Ganginala ranges for want of demand. Only one felling series in the Damoh Division remained unworked during the year (as was also the case last year) as the road required to open it up could not be constructed during the year by the Public Works Department.

A rough scheme of working for the Khanat sal forests in the South Mandla Forest Division is reported to have been prepared by the Forest Divisional Officer (but not submitted) during the year on the lines prescribed by the Chief Conservator of Forests.

In the Saugor Division the prescriptions of the existing working plan were slightly modified under the orders of the Chief Conservator of Forests (as stated in the last report) by a reduction in the minimum number of standards to be retained under the coppice with standard system from 50 to 30 per acre. This has enabled a large proportion of useless material to be removed and increased the revenue at the same time. A new working scheme for the Garhakota reserve has been sanctioned and is to be introduced from the year 1913. In the Hoshangabad Division the amended working plan in respect of the bamboo working in the Rahatgaon and Magardha ranges was followed. For want of a purchaser for the coupes of the Bori reserve the provisions of the revised working plan as regards fellings could not be followed. Four out of the eight felling series in the Sohagpur range still remained unworked but, as explained in the last report, this is of little consequence as the produce is of low value. The improvement fellings elsewhere were carried on on the same lines as in the previous year and the intensity of working was more in accordance with the working plan and the views of the Chief Conservator of Forests expressed in 1911. The dual system of marking certain species for felling and certain for reservation has been given up as unsatisfactory (as was explained in the preceding year's report) and the old system of marking for felling was resumed.

#### SOUTHERN CIRCLE.

34. New Plans.—There are three divisions, namely, Balaghat (part), Bhandara and South Chanda (part) in which recently sanctioned revised working plans are now in force over 126,533 and 73 square miles respectively. Revised

working plans of Nagpur-Wardha and South Chanda Divisions are still in the press and though they have not been formally sanctioned their prescriptions are being carried out. The revision of the Bilaspur working plan was completed during the year by the Divisional Forest Officer and the orders of Government on the Revenue Officer's report are awaited, pending which sanction has been obtained to putting the revised provisions into force.

Old Plans.—The work of revising working plans in the Balaghat (part) and Raipur Divisions was continued during the year, Messrs. Carr and Townshend being specially appointed Working Plans Officers for the purpose. Some delay is likely to be caused in both divisions, but more particularly Raipur, owing to the maps of these forests not having been kept up to date in the past as regards boundaries, roads and fire-lines.

An officer was appointed to prepare a revision of the North Chanda working plan but comparatively little progress was made as he had shortly after to take charge of the division. The supply of forest produce in this division is almost twice the demand, so that there is no great urgency in revising the present working plans which are not altogether unsuitable. The forests moreover are in a somewhat doubtful position owing to possible disforestments for irrigation projects in the future, and little progress has been made in mapping internal roads and fire-lines which are normally used as bases for boundaries of felling series and coupes. This work preliminary to the working plan will be taken in hand

The 307 square miles shown in Column 6 against South Chanda, the area comprising the Sironcha range, has been transferred to Column 7. Owing to unlimited commutation, browsing by goats and a very poor soil, this range is almost devoid of forest vegetation so that the preparation of a workin; plan may well be deferred until such time as the effect of Government orders putting a stop to these practices can be seen.

#### BERAR CIRCLE.

35. Working plans were in various stages of preparation in six out of the seven divisions

In Melghat Mr Donald collected information in the new reserves at the beginning of the season until he was transferred to the Imperial Forest College in February. Mr. Mason carried on the work for a few days in April, when he was also transferred, after which, until the end of the year, no officer was available for this work.

In Amraoti the field work was completed and a beginning made of the writing of the plan.

The Buldana plan was completed and sent to press during the year.

Mr. Malcolm on relief from charge of the division made a beginning on the field work for the *Yeotmal* working plan, for which the general lines were laid down after consultation with the Chief Conservator of Forests on tour in the division.

The Akola plan has not yet been completed.

The Nimar plan was sent to press during the year.

Old Plans.—The provisions of the old plans in force were worked up to as far as possible. In the Penganga reserve, owing to absence of demand and inaccessibility of the forest, fellings were in deficit. In Betul also fellings were in deficit in places owing to want of demand. This condition, however, may be expected to improve with the opening of the Itarsi-Badnur Railway. In this division the 10 felling series in the Dabka and Sawalmendha ranges were reconstituted and three felling series in the most accessible parts were formed, the remainder of the forests, where experience has shown a complete absence of demand, being thrown into the unworkable area

# (b) PRELIMINARY WORKING PLAN REPORTS.

#### NORTHERN CIRCLE.

36. No preliminary reports were submitted during the year. As explained in the last report the necessity having arisen in the Seoni Division for the revision of the existing working plan, data are being collected for a preliminary report. In the meanwhile, however, a scheme of fellings for the ensuing years was sanctioned provisionally.

#### SOUTHERN CIRCLE.

37. No preliminary reports were submitted during the year.

#### BERAR CIRCLE.

38. A preliminary report for the Melghat Division was submitted and approved during the year.

(c) PLANS OF OPERATIONS.

#### NORTHERN CIRCLE.

39 These were adhered to with few exceptions:-

Mandla.—The programme of road construction and cutting back operations could not be fully worked up to for want of labour. The most important deviation was the unforeseen collection of harra departmentally in certain ranges, as no adequate offer was received for the purchase of the leases.

#### SOUTHERN CIRCLE

40. These follow on approved working plans and were carried out as far as the demand for forest produce and funds allotted for expenditure admitted of this being done.

The demand in most divisions is beginning to catch up with the supply available under the old working plan prescriptions, but there are still many inaccessible areas from which, owing to the want of communications, forest produce cannot be exported

#### BERAR CIRCLE

41. The sanctioned plans were generally worked up to without material deviations.

In Buldana the building of the Purna range quarters at Khamgaon had to be abandoned owing to an unexpected difficulty about the site.

The construction of the Wasali-Chunkheri road proved more expensive than anticipated and progress made was consequently less than proposed.

In Yeotmal the building of range quarters at Darwha was retarded owing to labour difficulties consequent on the approach of railway construction absorbing all skilled labour. The construction of three wells was postponed as suitable sites could not be found. On the other hand the construction of the Yeotmal-Rauldari Road, not anticipated in the Annual Plan of Operations, was carried out under proper sanction with funds obtained from the special grant for road making.

SECTION 2.—COMMUNICATION AND BUILDINGS (FURM No. 12).

#### (a) ROADS AND BRIDGES.

#### NORTHERN CIRCLE.

42. Eighty-two miles of regular cart roads were constructed at a total cost of Rs. 18,450 including Rs. 736 spent on account of pay of establishment. Greater portion of this amount was usefully expended in the Hoshangabad Division where alone Rs. 10,680 were devoted to roads 36 miles in extent. Thirty-two miles of feeder roads were also made for Rs. 828 and four miles of Inspection-paths (in the Mandla Division only) for Rs. 25; alignment and road trace work covered-172 miles costing Rs. 1,371. Thus Rs. 20,674 were expended on new works.

43. As noted last year, Bori-Bagra road is the most important of all and the expenditure incurred on its seven sections is summarised below:—

In the Bagra-Paraspani section the only work done was widening the curves and the dangerously narrow portions extending only over 5 chains costing Rs. 24.

Of the Paraspani-Pathai section the excessive gradients were reduced over a length of 4 miles. This section is now complete.

Rs. 17 were expended in completing the Denwa-Kharpalar ghat over the Pathai-Khapa section and nala crossings were improved and excessive gradients reduced at a cost of Rs. 75 over the Khapa-Kareli section which is now complete.

A nala crossing was improved over the Kareli-Churna section and further improvement is being done this year out of the special grant allotment.

A further sum of Rs 75 was spent on the Churna-r hain section in improving the nala crossings and removing projecting boulders. It is also proposed to effect further improvements in straightening the road, metalling sandy stretches and reducing gradients at nala crossings out of the special grant.

The remaining portion of the Harrapala ghat (2 miles) over the Dhain-Boil section was completed for Rs. 762. Further improvements are contemplated, the cost of which will be met from the special grant.

The construction of the Churna-Sakot and Sakot-Kesla roads was continued as was that of Ari-Denwa taken up. The former two have been mentioned in the last report as the continuation of the Bori-Dhain-Churna section of the road and the latter as an improvement to the Khapa-Bagra section, whereby the distance is decreased by 4 miles. On 4 miles of the first road (Churna-Sakot) Rs. 701 were spent during the year and it is now practically complete. Only Rs 323 were spent on the second of the above roads, vis., Sakot-Kesla, chiefly on the ghat to the Tawa river. A portion of this road passes through malguzari land which has to be acquired before the construction can be undertaken. A large proportion of the special allotment is proposed to be devoted to the above three roads, which require improvements on the river and nala crossings and in reducing gradients and straightening curves and metalling stretches of sandy portions.

The other roads in the same division for which funds are provided for from the special grant are Bori-Babhai and Koreamla-Suakachar roads over which Rs. 171 (for 6 furlongs) and Rs. 368 (for 3 miles) have respectively been spent during the year. The first road is to facilitate extraction of timber from Coupes 1 and 2 of Jholi felling series, and the second that of bamboos from the Malni tract, by floating them down the Denwa and Tawa rivers to Bagra.

The special grant alluded to above is for 1913-14 and amounts to Rs. 21,700 and is not to be confused in the extra grant of Rs. 13,500 for the same year distributed over all the other divisions.

In the same division, besides the above, the construction of (1) Ratakhans ghat (1 mile, cost Rs. 505), (2) Sarangpur-Keria (1 mile, cost Rs. 440), (3) Jijajideo Madikho (4 miles, cost Rs. 1,100), (4) Dhekna-Lakartalai (6 miles, cost Rs. 1,553), (5) Banspani-Khumi (6 miles, cost Rs. 1,544), and (6) Bori-Mahukhal roads (5 miles, cost Rs. 1,604) was also undertaken. The first four will prove very useful by giving easy access to the forests. The last two roads will with some extensions open up, respectively, the whole of the west and east of the Rahetgaon range. The last named road is likely to become one of the most important roads in the division. It may also be noted that for the Banspani-Khumi road Rs. 1,400 were allotted out of the special grant of Rs. 5,000 sanctioned by Government during 1912-13

- 44. In the Saugor Division the cart roads referred to in the last report were completed by an extension of  $2\frac{1}{2}$  miles costing Rs. 160 and these have considerably increased the value of the teak growing areas of the Rehli range. A new and important road was also commenced from Suakatha-Kheri in the Deori range and Rs. 316 have been spent over nearly  $\frac{1}{2}$  a mile of it. From the special grant Rs. 2,300 have been allotted to it.
- 45. In the Damoh Division Rs. 2,909 and in the Chhindwara Division Rs. 3,334 were spent respectively over 18 and 14 miles of cart roads. The Chhindwara figure includes Rs. 3,000 (covering 9 miles) allotted out of the special grant of Rs. 5,000 referred to above. Other roads in the other divisions are not of sufficient importance to be detailed here except that in the Seoni

Division Rs. 405 were spent (on \( \frac{8}{4} \) of a mile) out of the allotment made from the above noted grant.

- 46. Besides the above Rs. 828 were spent on feeder roads 32 miles in length. 172 miles of alignment and road trace work was also done in all divisions (except Jubbulpore-Narsinghpur and Seoni. Of these 172 miles no less than 110 were in the Hoshangabad Division.
- 17. The total amount spent on repairs to cart and feeder roads, etc., was Rs 6,312 covering 864 miles in extent.
  - The total expenditure on new work and repairs amounted to Rs. 26,986.
- 49. The expenditure under roads was Rs. 38,388 as compared with Rs. 29,502 in the previous year Of this Rs. 23,881 was spent on new work and Rs. 14,507 on upkeep; nearly the whole of which was spent in the construction and repair of export cart roads Of new work Rs. 14,647 was spent in the Balaghat, Bilaspur and Raipur Divisions. Considerable progress was made in the Balaghat Division where 13 miles of road were constructed against 4 miles in the previous year and 7 miles of new alignment laid out in addition. The principal work was the opening out of the Sonawani range to afford feeder roads to the new branch of the Bengal-Nagpur Railway which is extending into the forest to tap manganese deposits. The roads will open up large tracts of m gnificent bamboo forest hitherto little worked and enable timber and bamboos to be exported by rail to Nagpur, Wardha and other large towns on the Great Indian Peninsula Railway. The question of the future construction and exten ion of these feeder roads is intimately bound up with railway traffic which as usual was held up owing to wagons no. being supplied in sufficient quantities to exporters of timber and bamboos.

Considerable progress was also made in the Bilaspur Division where 13 miles of cart roads were mide at a cost of Rs 4,261 compared with 6 miles constructed in the previous year. This included the construction of portions of the Lamni-Keonchi road, the metalling of 13 miles of the Mahraji-Zirano road and the completion of the Karidongri-Boerha road. In Raipur the principal work was the continuation of the Mohdi-Nagri road for extraction of forest produce from the Sihawa range Without roads to tap these somewhat inaccessible areas it will be impossible to carry out the exploitation contemplated under the plan now being revised. Other important works are the Nawaigaon-Phondel road in the Nawaigaon-Phondel Bhandak road in the North Chanda Division on which Rs 2,278 was spent for improvements, such as construction of culverts, laying a foundation of gravel on the clayey portions and the casing of gradients at river crossings; the Kanhargaon-Wamanpilli road in the Dhaba range of South Chanda Division on which Rs. 1,806 was spent during the year, this road taps practically the whole Dhaba block connecting with the Allapalli Public Works Department main road. more expensive forest roads are being constructed by the Public Works Department after approval by the Civil authorities. This is undoubtedly useful where roads pass through malguzari lands or form connecting links between cultivated tracts of country, but it is difficult to obtain approval to the construction of roads which are used purely for the extraction of forest produce. In Balaghat the Deputy Commissioner objected to the construction of a forest road which ran parallel with a Public Works Department main road at a distance of some three It was not apparently realised that as a rocky ridge separated the Public Works Department road from the suggested forest road that the former road was of no use for extracting timber from the valley up which the forest road had been aligned. In consequence of this objection the road had to be taken off the schedule of Public Works Department projects in the near future. A forest road though sometimes useful to the general public is often only wanted for the export of forest produce pure and simple.

50. This was not used during the year and will not be of use until the construction of the Weinganga causeway is completed.

The establishment has been dispensed with and the tractor laid up under the orders of the Local Administration.

Many of the roads in this Circle, as noted above, go to feed the railway and much forest produce is exported from the Balaghat, Bhandara and Chanda Districts to the rich but treeless plains of Wardha and Eastern Berar The railway line from Nagpur towards Bombay was being doubled during the year. It is expected that this work will be finished in about another year's time when the congestion of traffic should be removed.

#### BERAR CIRCLE,

- 52. The expenditure on roads was Rs. 31,924 as compared with Rs 15,696 in 1911-12. New work cost Rs. 20,862, 54 miles and 56 chains of regular cart roads were constructed at a cost of Rs. 11,127 and 9 miles 76 chains of roads not completed cost Rs. 9,141, Rs. 352 were spent on making 22 miles of coupe and feeder roads, Rs 97 on the alignment of  $42\frac{1}{2}$  miles of roads and Rs 147 on making 3 miles 30 chains of bridle paths.
- 53. Repairs cost Rs 11,062. Rs. 10,436 being spent on 1,214 miles of cart roads, Rs. 599 on 3161 miles of bridle paths and Rs. 27 on 14 miles of dragging paths.
- 54. The heaviest expenditure on new works was incurred in Buldana Rs. 8,254, Akola Rs. 5,500, and Nimar Rs. 4,760. In Buldana Rs. 3,202 were spent on continuing the Chunkheri-Pingli road which is now nearly completed and with a small further expenditure should be open for traffic by next December. Rs. 4,169 was spent on a part of the Wasali-Chunkheri road. Unfortunately a considerable sum was wasted here as the Divisional Officer at the time made one section unnecessarily elaborate, and on the next section abandoned the original alignment without due consideration, the consequence being that the construction is cut off from the following section by a reef of rock to pass which will entail very heavy expenditure on blasting. It has since been decided to complete the construction of this road by the agency of the Public Works Department. In Akola 14½ miles on five ghat roads were constructed at a cost of Rs. 3.700 to the departmental funds in addition to a contribution of Rs. 1.000 of Rs. 3,700 to the departmental funds in addition to a contribution of Rs. 1,000 from the District Board. The roads which were inspected by the Conservator were well laid out and constructed and will facilitate traffic both from the forests and for the general public In Nimar the new works consisted in making diversions and easing gradients on existing cart tracks in the forests. The old roads so called in Nimar are perhaps the worst in the Circle and even more money might advantageously be spent to open up the interior of the Chandgarh, Pipled and Kaliblia Bandara Takana difficulties have and the Piplod and Kalibhit Ranges. Labour difficulties, however, are great and the programme has had to be cut down in order to avoid the wholesale desertion of forest villagers. The importation of labour sangs appears the obvious solution, but the climate of these forests is so poisonous to outsiders, for a considerable time after the rains, that such gangs cannot be permanently employed.
  - 55. In all divisions the difficulty of obtaining a supply of labour and its high cost when obtained is complained of; the only exception was Buldana where many coolies came from Khandesh seeking employment owing to the failure of the food-crops. In Betul it is hoped that with the completion of railway construction this difficulty will be lessened, but in Yeotmal it will become even more acute as railway construction is extending into the district.

In the Melghat the formation of the new reserves will necessitate a considerable amount of road construction in the near future and general alignments for some of the more urgently needed roads have already been decided on. Here again the labour difficulty in unhealthy forests with a thin Korku population will be pronounced and the work can only progress slowly.

Repairs to roads were heaviest in Melghat, Rs. 3,780 and Betul Rs. 2,923. In Amraoti Rs. 980 was paid by agreement as a contribution to the District Board for the upkeep of the Amraoti-Pohora road.

# NORTHERN CIRCLE.

56. The following permanent buildings were entirely constructed during the year:—

Range Officers' quarters	400	***	1
Range Assistants' quarters	•••	•••	I
Forest Guards' nakas	•••	***	21
Forest Guards' temporary nakas	•••	•••	9
Out-houses to Range quarters	•••	••	ï

Besides the above one Range Assistant's quarters was purchased in the Damoh Division for Rs. 225. Also the compound walls to one Range quarters, and one Range Assistant and Range Moharrirs' quarters in the Mandla Division were constructed for Rs 300.

The following temporary buildings were also constructed in the Mandla Division -

Stables and out-houses	•••		3
Inspection huts	•••	•••	2
Quarters for Range Moharrir a	nd orderly		I

57. The following buildings that could not be completed last year were completed during the year:—

Rest-houses	***	***	2
Range Assistants' quarters	***	•••	1
Range Mohauirs' quarters	***	•••	3
Forest Guards' nakas	•••		5
Mahauts' quarters	•••	5.01	I
Out-houses to rest-house	***	•	I

Besides these, additions to two rest-houses costing Rs. 378 were made.

58. The following buildings were partly constructed during the year:-

Rest-houses	101	***	3
Range quarters	***		1
Range Assistants' quarters		***	3
Forest Guard's nakas	***	•••	14

- 59. On the above work Rs. 15,293 were expended in all during the year.
- 60. An expenditure of Rs 6,445 was incurred on repairs to buildings including Rs. 31 expended on katcha huts in Hoshangabad. Besides, Rs. 294 were paid to malis and for dismantling of nakas, etc., in the Hoshangabad and Mandla Divisions.
  - 61. The total outlay on these works was Rs. 22,032.

#### SOUTHERN CIRCLE.

- 62. The expenditure on buildings during the year amounted to Rs. 32,317 as compared with Rs. 27,963 during 1911-12. Rs. 22,724 was spent on new works.
  - 63. The new office for the South Chanda Division was completed and occupied and the foundations of the new residential quarters for the Bilaspur Divisional Officer were laid during the year.

Resi-houses 64. The following rest-houses were completed during the year:—

Division. Name.

Bhandara ... Out-houses to Bheokhidki Rest-house.

Bilaspur ... Lamni Rest-house.

Nagpur-Wardha ... Nagalwari and Panjra Rest-houses with out-houses. Out-houses to Sylari Rest-

house.

Raipar ... Kitchen and out-houses to Borai Rest-

house

Balaghat ... Out-houses to new Rest-house at Supkhar was commenced

Subordinates' quarters.

65. The following were constructed or completed:—

Division \\ame

Balaghat ... Range Assistants' quarters at Dhansua and
Batkari One additional room to Range
Moharirs' quarters at Baihar. b Forest
Guards' nakas

Bhandara Range Assistants' quarters at Kosumtondi and Digori Out-house, to Range quarters at Sangaihi. 8 Forest Guards' nakas.

Bilaspur Range Officers' quarters at Baloda.

North Chanda ... Range Assistants' quarters at Junona and Keljai. 4 Forest Guards' nakas

South Chanda .. Range Clerks' quarters at Kothari, Depot Jamadar's quarters at Ballarshah. 4 Forest

Guards' nakas.

Nagpur-Wardha ... Range Assistants' quarters at Bazargaon.
Out-houses to Range quarters at Umrer
Out-houses to Range Assistants' quarters at

Heora, 1 Forest Guards' naka.

Raiput ... Range quarters at Sihawa for South Sihawa Range Officer. 6 Forest Guards' nakas.

And quarters were commenced at the following places:-

Division. Name.

Balaghat ... Range Assistants' quarters at Supkhar. 1
Forest Guards' nake

Bhandara ... 4 Forest Guards' nakas.

Bilaspur ... Range Assistants' quarters at Lamni and Gindola Range Officers' quarters at

Bilaigarh.

North Chanda ... Range Assistants' quarters at Warora and Rajoli.

South Chanda .. 5 Forest Guards' nakas Raipur ... 2 Forest Guards' nakas.

66. Rupees 1,198 were spent on the construction of petty buildings in connection with the Forest School at Balaghat. A sum of Rs 40,000 has been placed at the disposal of the Public Works Department for extensions to the school buildings to provide a new school room, hospital and quarters for Assistant Instructor, Curator, Sub-Assistant Surgeon and 25 students.

A sum of Rs. 9,020 has been sanctioned for show cases, etc., for the Museum.

# BERAR CIRCLE.

67. The expenditure on buildings was Rs. 20,476 on new works and Rs. 10,952 on repairs, as compared with Rs. 14,078 and Rs. 10,485, respectively, in the previous year.

68. Under new works the Mehdari rest-house with its out-houses in Amraoti Division was completed for Rs 441. At Singad in Ycotmal Division a rest-house partly built by the Public Works Department was taken over and its construction continued at a cost of Rs 2,711.

Of Subordinates' quarters the following were completed :-

Melghat. - Six guards' quarters and 28 temporary huts.

Ami noti -Se en guards' quarters, two out-houses to Range Officers' quarters and one temporary hut.

Bulcana-One temporary hut.

Yeat mat -- One Panie Officer's, two Range Assistants', four guards' quarters and seven temporary buts.

Ak la -One Range Officer's quarters.

Nimar,—I wo Range Officers,' one Range Assistants, two guards' quarters, two out-houses to Range Officers' quarters and 13 temporary huts.

Betul.-One Range Assistant's, one guards' quarters, four temporary huts.

Total cost Rs. 12,464, while Rs 3,845 was spent on quarters uncompleted at the close of the year.

69. Under repairs, Rs 1,577 were spent on Head-quarters houses; Rs. 2,875 on 42 Rest-houses, Rs 5,277 on 458 Subordinates' quarters and Rs. 1,223 on 136 other buildings.

The housing of subordinates is still in a very backward state in some Divisions. A satisfactory standard plan for Range Officers' quarters has been adopted and an experiment to decide on a suitable plan for Range Assistants is in progress, but the housing of the lower subordinates is a difficult question. The beat guards deserve to be provided with proper accommodation especially in unhealthy tracts, and such provision would possibly assist recruitment, but it has been found very difficult to design a plan giving sufficient accommodation of substantial structure that is not very expensive.

#### (c) MISCELLANEOUS WORKS.

## NORTHERN CIRCLE.

70. Four wells were constructed during the year at a total cost of Rs. 1,154, vis.: one in Saugor (Rs. 579), two in Hoshangabad (Rs. 421), and one in Seoni (Rs. 134). Three wells left incomplete last year were completed during the year for Rs. 131. Rs. 2 were in addition required for a well already shown as completed in Mandla. 9 wells were left incomplete at the close of the year, the amount spent on them being Rs. 950, out of which amount, however, Rs. 50 were eventually recovered after the close of the year in the Seoni Division as the work was not approved of.

In addition to the above, Rs. 55 were paid to a contractor in Mandla in settlement of his claims for a well.

71. For the last section of the useful Patesur Tank in the Seoni Division Rs. 1,152 were expended which completes the work. The site selected for the Kahani Tank in the same Division and referred to in the last Report was, or, further consideration and by inspection of the site, rejected as unsuitable and of doubtful utility.

Thus Rs. 3,444 were spent on new works under this head in addition to which Rs. 900 were disbursed as the pay and travelling allowance of the Public Works Department Overseer and his establishment deputed on tank works.

- 72. Under repairs Rs 1,911 were expended. The details of work are as follows:—
  - Ten tanks cost Rs. 443); 65 wells (Rs. 807); 12 Jhirias (Rs. 44); clearing, fencing, etc., of compounds of Rest-houses, Subordinates' quarters, Rest Camps, &c Rs. 617)
  - 73. On the whole Rs 6,255 were spent under this head
- 71 Of the tails of the Sango Diction referred to in the last Report, the leaks of the Cliheola Balch task rather incremed although efforts were made to stop them. The tank nevertheless holds water throughout the year. The Padrai touk continues to leak as much as every of this practically dry by January. As for Nethertanh some drings were ling to increase its catchment area, but the result is yet to be varened. The near not of the Pipatkhen Tank project was not completed by the Public World Department Overseer.
- 75 The total outlay under Head A-VII during the year under report compacts as below with tuat for the preceding year —

Yent		A VI( 3	6-11V-'.	A-VII-c	Total
à		2	3	4	5
		185	Rs.	Rs.	Rs.
1911 12		22 151	22,108	5,352	49,611
1912-13	•	2 <b>6</b> 986	22,032	6,255	55,2 <b>73</b>
the state makestand agreement programmy states and accompanies	CHAMET PRATERY, 1	Market Control of the	maritament themselve business file	April 1864 Magnitude and Artist St. 18 March 18	begingsenet, incomplet the

#### SOUTHERN CIRCLE

- 76. The expenditure under this held was Rs 15.323 as compared with Rs. 16,370 spent last year. Of this, Rs. 9,130 was spent on new work and Rs. 6,193 on repairs, etc.
- Tanks.

  Tanks.

  Tanks.

  Dund of the Nagjhirri tank (Bhandara Division) noted in last year's Annual Report burst owing to its not being built sufficiently high above the level of the waste-weir. This was repaired and the tank completed during the year at a cost of Rs. 3,461, the total expenditure amounting to Rs. 6,440. The bund of the tank was in order at time of writing this report. No new tanks were commenced during the year, but programmes for the construction of tanks in waterless areas were called for. As such areas are usually far from human habitations, very little is known about their or their suitability from the point of view of tank construction. In the Chanda and Balaghat districts tanks are mainly constructed for irrigation purposes, the forests being on the whole very well provided with natural pools suitable for watering cattle even in the driest weather. It is however improbable that few if any tanks are required in this Circle for watering cattle. Some three-quarters of the forests are open to fairly heavy grazing throughout the rainy season, so that comparatively little grass exists after the close of the monsoon except in the temporarily closed coupes and tanks made in such areas would cease to be of value when these coupes in their turn were thrown open to grazing during the rainy season.
  - 78. Rs. 3,637 were spent on new Iwork and Rs. 988 on repairs to wells.

New wells were constructed during; the year as follows:-

5 in Balaghat, 2 Bilaspur, 1 North Chanda, 10 South Chanda, 3 Nagpur-Wardha, and 2 Raipur.

### DERAR CIRCLE

- 79. The expenditure under A-VII-c was Rs 14,624 as compared with Rs 24,756 in 1911-12
- 80. In Nimar Rs. 2,385 were spent on completing the Karwani Tank and in Betul Rs 200 on 1 cpairs to the waste-weir channel of Ladi Tank. 29 new wells were constructed of completed at a cost of Rs. 5,715, while Rs. 1,435 was spent on 9 wells still incomplete. In Akola 3 troughs for watering cattle at wells were built for Rs 160 Rs. 236 was spent on trial pits for 5 wells. In Nimar, at the instance of the Revenue authorities, 19 temporary bunds were thrown across values to hold up water in anticipation of a greatly increased demand for grazing during the hot weather. One similar bund was made in Yeotmal. The cost was Rs. 680 and Rs. 30, respectively.
- 81. Repairs to 93 wells and 17 jhuras cost Rs. 2,117. Compounds of 104 buildings were cleaned at a cost of Rs. 1,173, and 23 were fenced for Rs 213. The Overseer on the Kharmani Tank cost Rs 65 and other miscellaneous charges were Rs 215.

The following statement displays the work done in constructing and repairing wells —

	Division	Wells complete		mpleted	d Wells in progress,		Wellis and thirds deepened and repaired.	
			No	Cost	No	Cost	No	Cost.
	£		2	3	4	5	б	7
				Rs		Rs		Rs
Melghat			10	175	1	13	25	45
Amraoti		•••		1	4+1		10	190
buldana			2	607	2	514	15	442
Yeotmal		[	7	2,184	4	780	12	205
Akola			3	1,165	***		14	175
Nımar			4	1,194		48	29	942
Betul		"	3	390	1	80	4	118
	Total		20	5,715	· ·	1,435	109	2,117

# SECTION 3.--PROTECTION OF FORESTS (FORM No. 13).

### (a) GENERAL PROTECTION.

#### NORTHERN CIRCLE.

82. The Forest offences of the year are compared below with those of the preceding year:—

No. and the second seco	 Average of three years.	1911-12.	1912-13	Increase or decrease.
ī	2	3	4	5
1. Injury by fire 2. Unanthorized felling 3. Unanthorized grazing 4. Other offences	 273 1,611 1,084 53	217 1,548 975 61	136 1,810 1,255 76	-81 + 262 + 280 + 15
Tota	 2,921	2,801	3,277	+476

83. The total number of cases for the year under report were thus in excess of those for the preceding year, as also of the average for the preceding three years by 476 and 356, respectively.

Under "Injury by fire" there appears a decrease of 81 cases as compared with the preceding year and of 137 as compared with the average. There is an appreciable increase in the Mandla Division only and a slight increase in Jubbulpore Narsinghpur, all the other Divisions showing decreases. The increase in Mandla is attributed to the extension of the fire protection operations to the Khannat Forests and the decrease in other cases to the early and frequent falls of rain.

Under "Unauthorized felling" the increase is noticeable in all the Divisions, except Saugor, and is ascribed to better vigilance on the part of the staff in the matter of detecting offences. In Mandla the Divisional Forest Officer attributes the increase of cases to more complete reporting rather than to any actual increase of cases during the year.

Under "Unauthorized grazing" only two Divisions, viz, Jubbulpore-Narsinghpur (13) and Seoni (19) show some decrease which is attributed to no action having been taken in the former Division against offenders in the Dhanwahi Range (of the old Jubbulpore Division) as the people were unaccustomed to the new rules, and in the Seoni Division to suspending all action against offenders until the end of August 1912, by which time they were permitted to take out licenses under the new rules. All the other Divisions show an increase in cases under this head, prominently the Damoh (114) and Chlindwara (109) Divisions and in a lesser degree Saugor (67), attributable to the tendency of the people to evade the new rules

Under "Other offences" the increase is restricted to the Mandla, Saugor, Seoni and Chhindwara Divisions, each showing only a slight difference and in general attributed to illicit cultivation and shooting in the Reserved Forests.

84. The number of cases decided by courts was 83 against 93 in the preceding year, and the percentage of convictions was 76 against 77.

The punishments awarded by Courts are reported to be adequate in all Divisions except Chhindwara, where the Divisional Forest Officer does not, in general, seem to be satisfied with the attitude of the Magistrates who, he says, give expression to their own opinions rather than administer the Forest Act, as it stands, while on the other hand the Forest staff are not sufficiently versed in the law. The District Magistrate has, however, taken action in the matter. The same Divisional Forest Officer brings to notice another difficulty, vis., that of the situation of the three Ranges in respect of the Tahsil jurisdictions, each of them lying partly in one and partly in another Tahsil—a drawback which makes it almost impossible for a Range Officer to attend to two different cases in two different Tahsils at nearly the same time, the head-quarters of which are 34 miles apart and 40 to 44 miles from any Range head-quarters. The above fact added to the delays in the Court cases arising from different causes seriously affects the more legitimate work of the Forest staff. The District Magistrate, it is further stated, has, however, issued orders to group cases and this may give some relief.

- 85. The number of cases compounded by officers authorized to do so under the provisions of the Forest Act was 2,851 against 2,542 the average of the preceding three years; and the number of persons involved was 7,693 against 7,042. The average amount of compensation taken was Rs. 3-1-4 against Rs. 2 12-7 per head and Rs. 8-5-1 against Rs. 6-4-1 per case.
- 86. There were 2c1 cases undetected—80 under "Injury by fire", 92 under "Illicit felling" and 29 under "Unauthorized grazing" against an average of 277 of the previous three years.

#### SOUTHERN CIRCLE

87. The forest offences of the year compare with those of preceding years as follows:

		- 1	1		1
N sture of oftence	( 1464 of 1911-17	Casus of the year	Aver e of pist thick years	Increase or derete	Percentage of total cares
	3	3	4	5	6
t Injury by hr Unauthorized felling ( Unauthorized grizing Other offences	1 339 982	77 132 1,1  9	135 1,330 856 50	51 8 203 1	4   4   1
I otal	• 488	2,593	230	213	

Except in the Nagpur-Wardha Division there has been an increase in all Divisions of cases of unauthorized grazing which is generally attributed to the greater vigilance of the forest staff. The decrease in the number of cases of injury by fire is due to the greater precautions taken to prevent fire and partly to early rain in some Divisions. In Bilaspur the decrease in cases of deliberate incendiarism is reported to reflect great credit on the tact of the Ranger of the Pantora Range. There were 105 new cases of the year taken into Court compared with 98 in 1911-12 of which, including 9 cases pending at the commencement of the year, 102 cases were disposed of, leaving a balance of 12 cases pending at the close of the year. In 77 out of 102 cases convictions were obtained, there being 25 acquittals during the year compared with 30 during 1911-12. Over half the acquittals occurred in the Raipur Division whereas in the previous year the Nagpur-Wardha Division headed the list. The incidence is somewhat remarkable, some individual Divisional Forest Officers do not appear to use sufficient discretion before sending cases up to Court as to whether the evidence is good enough to ensure conviction or not. Sentences appear on the whole to have been adequate.

88 There were 2,384 cases during the year in which the offenders agreed to compound for the damage done by them to the forests against 2,262 cases in 1911-12, 2,075 in 1910-11, the number of persons involved being 8,178.

The average amount accepted was Rs. 8-2-0 per case and Rs. 2-7-0 per person against an average in the last three years of Rs 6-11-11 per case and Rs 2-1-10 per person. Compensation varied from Rs 1-3-7 per head in North Chanda to Rs. 3-15-9 per head in Balaghat. The incidence in Nagpur-Wardha having fallen from Rs. 4-6-0 to Rs. 2-0-0 per head, this again is undoubtedly due to the individual idiosyncrasy of the officer in charge.

#### BERAR CIRCLE

89. The Forest offences of the year and the number of cattle impounded are compared with previous figures in the following statement —

Nature of offence.		Average of three years	1911-12	1912-13	Percentage of total cases.
I		2	3	4	5
Injury to forest by fire Unauthorized felling, or removals of produce Unauthorized grazing Other offences	** *** **		47 1 202 2,168 220	37 1,595 2,676 485	1 4 33 55 10
Total		3,702	3,637	4,793	As-
Number of cattle impounded	44	4,621	4.743	6,035	/ha

The number of cases dealt with rose by 1,156 or 32 per cent as compared with the previous year, the principal increases being 39 in Melghat, 452 in Buldana, 576 in Yeotmal and 78 in Nimar. In the Melghat restrictions are being introduced on the removal of produce from the newly constituted A Class reserves which must necessarily result in the increase of offences of unauthorized removals of produce. The increase, however, from 52 to 67 is small and show, that the restrictions have not been enforced with undue so verity on the Korku population. With the constitution of the new Reserves as A Class a beginning has also been made to treat cases of grazing without licenses after 31st July as forest offences instead of as formerly merely charging double dues under the C Class grazing rules. In Buldana the large increase of 216 under unauthorized grazing is due to the scarcity of fodder which led the people to graze their cattle in closed areas with the hone of escaping detection unauthorized removals of produce the increase of 65 was due to the same shortage of fodder which tempted people to thefts. The same cause led to the increase of 254 cases of illicit grazing in Yeotmal, while the rise of 270 cases of unauthorized removals of produce is attributed to greater strictness in enforcing the restrictions on the felling of teak in C Class forests, which is very necessary to prevent the complete destruction of teak in these areas. In Nimar the rise is due to greater strictness in dealing with unauthorized fellings

The decrease in the number of fire cases is attributable to the scanty growth of grass owing to short rainfall and the heavy grazing in all forests which greatly reduced the quantities of inflammable material.

The increase in the number of other offences was found mainly in Buldana and Yeotmal where the checking of boundaries in preparation for survey operations brought to light a very large number of petty encroachments on the forests.

- 91. The total number of cases compounded was 4,5%, involving 11,931 persons as compared with 3,546 cases and 9,221 persons in the previous year. The total compensation accepted was Rs. 27,607-14-1, cr Rs. 6-0-4 per case and Rs. 2-5-0 per person as compared with Rs 5-2-4 per case and Rs. 1-15-8 per person. A large number of the cases are very petty, but there is no doubt that the rate of compensation taken might well be stiffened especially in Yeotmal where offences are very numerous, and the people not materially poorer than in the rest of Berar, while the rate of compensation accepted there is only about half of the average for the whole Circle
- 92. Of cases taken into Court, 5 were pending from the previous year, and there were 70 new cases. Of 72 cases completed convictions were obtained in 62 or 86 per cent and 3 remained pending at the close of the year.
- All Divisional Officers report that the sentences imposed by Magistrates were adequate. The most important case prosecuted was that of a timber contractor in Nimar who felled unmarked trees in his coupe and was sentenced to 6 months rigorous imprisonment. This conviction and punishment has contributed largely to a serious decrease in the amounts bid for coupes in the current year. There is no doubt that it will have a salutary effect on the working of lessees for some time to come.
- 93. Rules for the regulation of timber and fuel in transit in Yeotmal District were prepared with the concurrence of the Commissioner, Berar, and notified shortly after the close of the year. They should lessen the possibility for illicit removals which have been a subject of complaint from that district.

# (b) PROTECTION FROM FIRE (FORM NO. 14). NORTHERN CIRCLE.

94. The area attempted to be protected during the year was 1,971,486 acres or 3,080 square miles as compared with 1,753,272 acres or 2,740 square miles of the preceding year. The difference (218,214 acres) is due to more areas having been brought under protection in all Divisions (except only in Saugor where the area was reduced by 1,922 acres under the new scheme). The chief increase was in Mandla where protection was extended to the Khannat Forests (area 68,629 acres).

- 95. Of the area under protection during the year 1,922,971 acres or 3,005 square miles were successfully protected as against 1,692,786 acres or 2,645 square miles during the preceding year. The percentage of failure thus fell from 3'45 to 2'46 and the cost from Rs. 11-7-5 to Rs. 10-15-2 per square mile. The decrease in the area burnt was conspicuously noticeable in the Saugor, Hoshangabad and Chhindwara Divisions though Sconi also contributed to it in a slight measure. There were, on the other hand, increases in the Mandla (North and South), Jubbulpore-Narsinghpur and Damoh Divisions. In the last the increase was considerable. The net result for the Circle as a whole was, however, satisfactory as the total area burnt was less than that in the preceding year by nearly 12,000 acres. In the Mandla Division, out of the area of 3,870 acres burnt (by 11 fires) 3,441 acres were in the Khanat Forest (just brought under protection). But for this the result would certainly have been a decrease for the Division as compared with the preceding year. In the Jubbulpore-Narsinghpur Division the increase is assigned to two big fires occurring in the Dhanwahi and Khairi Ranges, the culprits in which have been ordered to be prosecuted. The greater area burnt in the Damoh Division also appears to be due to the protective measures having been extended during the year to a very large area. The satisfactory results in Sauger, Hoshangabad and Chhindwara Divisions were to some degree due to the favourable conditions of the weather, but more particularly to greater vigilance on the part of the protective staff and in the last named Division, also to the enforcement of their duty on the Kotwars and Mukaddams in connection with the fire protection. It may be noted here that not a single fire occurred in the Bori, Sohagpur, Hoshangabad and Magardha Ranges of the Hoshangabad Division, Khairi and Jubbulpore Ranges of the Jubbulpore Narsinghpur Division and Nerbudda Range of the Seoni Division, and the Range Officers concerned deserve their share of credit for the successful protection of their respective charges. The only two fires (burning in all 149 acres) in the Hoshangabad Division were due to causes unknown.
- 96. The expenditure incurred on special protection during the year amounted to Rs. 33,028 as against 30,047 in the preceding year. The figure is inclusive of Rs. 94 spent in the Mandla Division for clearing fire lines and maintaining watchers along the portion of the Lormi Range (Balaghat Division, Southern Circle) bordering the unprotected forests in the Mandla Division.
- 97. The largest number of fires occurred in the Saugor Division and the smallest in Hoshangabad.
- 98. The total number of fires during the year was 98 and the area burnt 48,515 acres or 76 square miles against 128 fires and 60,486 acres or 95 square miles burnt during the preceding year. The lowest percentage of failure was of in the Hoshangabad Division and the highest 9.88 in the Damoh Division.
- 99. Form No. 15 gives the classification of fires according to the several Divisions of the Circle. It will be seen that out of the total of 98 fires no less than 44 covering an area of 20,835 (out of the total of 48,515) acres were from causes unknown, and this large proportion is contributed specially by Saugor, Damoh and Chhindwara Divisions. In the last named Division the area burnt is, however, comparatively very small.
- 100. The area burnt from cause A (carelessness in burning fire line) is conspicuously large in the Damoh Division in which as much as 9,565 acres were burnt in two fires alone. In both cases the subordinates at fault have been adequately dealt with.
- vara); in three of these convictions were obtained,—two resulted in acquittal and one was pending at the close of the year.
- 102. Of the fires in unprotected forests, Jubbulpore-Narsinghpur reports 28, Damoh 10 and Seoni 22, covering in all an area of 18 square miles.

- 103 Of the 98 fires in the specially protected areas, 31 were inspected by the Divisional Forest Officers, one by an Assistant Conservator and one by an Extra-Assistant Conservator. The percentage inspected was greater than that of the preceding year.
- 104. The season on the whole was not unfavourable to successful fire protection though the work of burning fire lines was in some measure impeded.

#### SOUTHERN CIRCLE.

- 105. The area in which fire protection was attempted in the Southern Circle during the year was 3,098,263 acres as compared with 2,968,095 attempted in 1911-12 This area forms 69 per cent of the total area of A Class forests, and of this 98 39 per cent was successfully protected as compared with 98 44 in the previous year. The greater part of the remainder were departmentally burnt early in the year, or so he wily grazed down that there was no material to burn. 31,084 acres out of 49,945 acres of the total area burnt were in the Raipur Division. The largest fires occurred in this Division, most of which starting in the South of the District spread to the forest from accidental fires in private jungles. In Raipur five fires hurnt nearly 41 square miles of forest, one fire alone which spread from the Madras border being accountable for 10 square miles. It appears hopeless to protect the Sihawa Ranges from fire with the present methods in vogue, the old fire registers showing frequent fires in these forests every year or so and in future the early hurning of the more inflammable savannahs will be resorted to. The fire protective measures in Bilaspur were more successful, and this is no doubt partly due to the early burning of some of the large open maidans of the East and West Lormi Ranges. In Balaghat two conflagrations burnt two and five square miles respectively, the largest fire being attributed to malice propense. The season was a good one for fire protection on the whole owing to a comparatively early rainy season and all other Divisions show less than I per cent of area burnt during the year. The writer toured through part of the Moharli Range in the North Chanda Division during May and was struck with the finality obtained, by successful fire protection, the greater part of the area owing to the dense cover of tree, and bamboos containing so little inflammable grass that a fire would now do comparatively little damage even in the hot weather.
- 105. The total cost of fire protection in the Circle in the area in which protection was attempted amounted to Rs 48,054 or Rs. 9-14-10 per mile This compares with Rs. 45,771 or Rs. 10 per mile spent in 1911-12. The highest cost was in North Chanda where it amounted to Rs. 15-7-0 per square mile. In the two Chanda Divisions the intensity of fire portection is far too high under present conditions and it should be possible to greatly reduce the cost of these operations in future.
- 107. The statement in Form No. 15 shows the causes of fires. There were 7 cases taken into Court.

## BERAR CIRCLE

- 108. The area attempted to be protected was 2,327,231 acres or 3,636 square miles. The decrease of 136 square miles as compared with the area attempted in the previous area is due to the re-arrangement of felling series in the Dabka and Sawalmendha Ranges in Betul where a considerable area has been decided to be unworkable and therefore removed from protection, and to considerable areas in Nimar being given over to early burning instead of systematic protection.
- 109. The area burnt amounted to only 18,316 acres or 29 square miles, being 0.79 per cent only of the area attempted. The results are a great contrast to those of previous years. They are due principally to the conditions of the season which were favourable to success for, though some showers in January and February delayed the final burning of the lines to some extent, yet fairly heavy and general rain fell in the latter part of May thus shortening the season of danger and the heat and drought were neither so intense nor so prolonged as in recent seasons. The scanty growth of grass and the great demand for grazing

also diminished the risks of fire To the policy of burning early some areas where systematic protection could not be carried out must also be attributed some of the success in areas where protection was concentrated. The results varied from 0.02 per cent of failures in Akola to 16 per cent in Nimar.

owing to the abandonment of the areas referred to, while the cost per square mile attempted fell from Rs 10-4-9 to Rs. 9-4-3 per square mile, this being due to the increased ease of line burning. On many lines it was reported that there was no grass to burn owing to the heavy grazing.

The cost of protection per square mile varied from Rs. 6-4-9 in Yeotmal to Rs. 18-0-10 in Amraoti. In this last Division the cost of protection is always high owing to the small area of the Reserves, but it should be possible to reduce it to some extent. In Buldana owing to the absence of inflammable material on the lines owing to heavy grazing the cost of protection fell from Rs 14-13-4 to Rs. 7-11-6, while the percentage of failures was only 0.9 per cent.

- 111. Form No. 15 details the origin and causes of fires.
- 112. There were only 31 fires as compared with 61 in the previous year, and there was a decrease under every cause. The catelessness of workmen, purchasers and travellers caused 12 fires as against 11 in the previous year, but the proportion from this cause is very high. No fire could be attributed to deliberate incendiarism. Only one fire in Nimar was caused by sparks from a locomotive as compared with 4 in the previous year. Though the conditions were favourable to line burning yet it is satisfactory to notice that only 7 fires originated from catelessness or accidents in this respect as compared with 22 in 1911-1912. In Betul where 3 fires from this cause burnt 2,06, acres and Buldana where 2 fires burnt 503 acres, it was found that the staff had not taken sufficient precautions and the persons at fault were punished departmentally. In Melghat a fire from this cause was due to a sudden change in the direction of the wind.

# (c) PROTECTION FROM CATTLE (FORMS 16 AND 17).

#### NORTHERN CIRCLE

- 113. Form No. 16 shows the details of areas closed and open to grazing during the year
- 114. The area entirely closed to grazing throughout the year was 971 square miles or 13:24 per cent of the total Forest area, while the area closed for part of the year was 50 square miles or 68 per cent of the total Forest area.
- The area open to all animals (including browsers) was 4,905 square miles or 66 72 per cent of the total Forest area. Thus 86'18 per cent of the total area of the forests was open to the grazing of horned animals throughout the year and '68 per cent was similarly open for part of the year, while 66'72 per cent was open to browsers throughout the year.
- 116. The number of cattle impounded during the year was 4,311 as against 4,096 of the preceding year.

#### SOUTHERN CIRCLE,

the year of 153 square miles or 3 per cent over the areas open in 1911-12. The area opened to sheep and goats was reduced by 96 square miles and the area open to sheep by 70 square miles during the year. There were practically no A Class forests open to browsing except in the forests of the Naggur-Wardha Division which are now permanently closed to all goats and sheep. In the North Chanda Division it is possible that the extension of reservation of areas (grass birs) for fodder will still further lessen the areas open to browsing. The increase in the area opened to grazing occurred mainly in the Nagpur-Wardha Division and was due to the opening of the Pench Ranges to grazing to relieve the incidence of grazing in other blocks where it was too heavy. There was however a decrease in the

number of cattle actually grazed. Light grazing is held to be good for regeneration as it keeps down the heavy growth of grass which tends to choke freshly germinated seedlings which spring up during the rainy season and undoubtedly lessens if it does not altogether obviate the damage done by accidental fires in the hot weather. Grazing is usually confined to the rainy season while the crops under cultivation are on the ground. After the rainy season grass tends to lose its nutritive power and cattle in the black soil country are fed on dry stalks of millet (kurbi). Light grazing is consequently more beneficial than harmful except in freshly coppiced areas. The reduction in the areas opened to browsing during the year occurred mainly in the Sironcha Range, South Chanda, and the 44 square miles of A class forest shown in column 6 of the form last year in the Raipur Division was apparently entered by mistake. Of the area 1,505 square miles closed to grazing 965 square miles represents areas of coupes temporarily closed to grazing after felling.

118. The number of cattle impounded during the year was 3,384 against 4,691 of the preceding year.

#### BERAR CIRCLE.

No. 16. In Berar proper the area closed to all animals for the whole year was 380 square miles or 11.2 per cent; the area closed to browsers was 1,437 square miles or 42.5 per cent, and the area open to all animals for the whole year was 1,515 square miles or 44.8 per cent.

In Nimar and Betul the area closed to all animals throughout the year was 256 square miles or 8'9 per cent; closed to browsers 2,588 square miles or 90'02 per cent; closed to all animals for part of the year 23 square miles or 0'8 per cent; and open to all animals throughout the year 8 square miles or 0'3 per cent. The last figure includes the small remaining B-I. area in Betul.

It was only in Nimar that it was found necessary to open closed coupes for part of the year in order to save the cattle. In Berar the area closed to all grazing rose by 41 square miles owing to the closure of coupes in an increased number of felling series under schemes of working. In Nimar and Betul the area so closed decreased from 481 square miles in 1911-12 as it was judged advantageous to keep coupes closed for five years only after felling instead of for 10 years as formerly prescribed.

120. The numbers of cattle that grazed in the forests during the past two years are compared in the following table:—

Year	Year. Buffaloes. Cows and bullocks.		Sheep and goats.	Other animals	
]		2	3	4	s
<del></del>			Betat Division.		
1912-13	•••	166,543	10,93,875	491,794	3,478
1911-12	"	164,348	10,94,140 Nimar and Betul.	416,858	3,544
1912-13		58,530	2,76,736	2,311	354
1911-12		58,475	272,799	1,632	482

The figures in the corresponding statement of last year were incorrect.

121. In Berar the numbers of cows and bullocks shew a slight fall, owing to the decrease of those grazed free or at privileged rates. This decrease is but nominal as formerly free grazing passes in C Class were issued for a number of

plough cattle which are stall-fed and never used the forests. This has been dropped. The number grazed at full rates shew an increase of 16,761, and the actual increase in numbers must be about this figure.

The most serious point in Berar is the great increase in the numbers of sheep. In Yeotmal it is said that many of these animals which usually graze in Izara villages were sent last year to C Class forests. These large flocks not only consume much grass which is necessary for agricultural cattle but defile the grazing so that cattle will hardly touch it. Provision is being made in the grazing rules to retain power to regulate the admission of sheep.

In Yeotmal and Akola considerable mortality is reported among the cattle who were greatly reduced by the prolonged drought and semi-starvation in 1912 and were incapable of digesting the green grass when it appeared at length towards the end of July.

In Buldana it is reported that the people are beginning to send their cattle in larger numbers to the cattle camps in the large forest blocks though they are not yet very popular.

In Nimar as great water and fodder scarcity throughout the District was anticipated, a number of cattle camps were organized in the larger forest blocks and water was provided by bunding up nalas early in the season. Arrangements were made to accommodate about 13 lakhs of cattle but in the end a comparatively small number came to the camps. The water-supply held out better than expected, while the people preferred to keep their cattle to graze on wheat-stubbles to sending them into the forests where they say that the dry grass in the hot weather is deleterious to the animals.

122. The total number of cattle impounded was 6,035 as compared with 4,743 in 1911-12. Owing to semi-starvation the animals were more inclined to stray from their herdsmen.

# (d) PROTECTION AGAINST INJURIES FROM NATURAL CAUSES. NORTHERN CIRCLE.

- 123. Frost.—There was practically no frost during the year. Slight damage was nevertheless reported to have been caused to saplings in some of the low lying places bordering the rivers in Mandla, Seoni and Chhindwara and in pronounced frost holes in the Hoshangabad Division.
- Wind.—Except in Seoni and Chhindwara where the severe storm was accompanied by hailstones in February, no damage by wind is reported. In the former Division considerable damage is reported to have been done to foliage of trees in the southern portion, and several trees were uprooted in the Ganginala Range. In the latter (Chhindwara Division), the hail-stones were very large (said to be of the size of cricket balls) and did considerable damage to the lac and mohwa crops, besides breaking the branches, bursting the bark, stripping every leaf from trees lying in its course. In parts of Mandla too the crop of mohwa and achar is said to have been damaged by hail in February. The constant cloudy weather, moreover, damaged the mohwa flower and seed crop and the harra crop a good deal.
- 125. Insects.—Considerable damage was done by the teak leaf defoliator in the higher parts of the Chhindwara Division, the three Northern Ranges of Seoni, South-Eastern and South-Western Ranges of Damoh and all the Ranges (except Murwara) of the Jubbulpore-Narsinghpur Division; entire defoliation occurred in the Mandla Range of the North Mandla Division; and some damage in the Hoshangabad Division is also reported.

Weevil beetles damaged to some extent the young bamboo shoots in Hoshangabad, but it continued to cause considerable damage in the Garhakota Reserve of the Saugor Division. The Saugor Divisional Forest Officer, however, says that its life history is now thoroughly understood and steps were taken to reduce the damage caused by it by collecting and destroying as many of the mature beetles as could be found in the months of July to September.

In the Mandla Division a certain number of Sal trees were killed by the borer (*Hyplo cerambix Spinicornis*) but the damage was less than that in the preceding year. A few infected trees were felled and barked. Mr. Stebbing's notes on the life history of this insect points to the probability of another serious attack in 1913-14.

Ants did some damage to the lac crop in the Chhindwara Division.

- 126. Loranthus --41,391 trees were relieved of this parasite in the Jubbul-pore-Narsinghpur, Damoh and Sconi Divisions at a cost of Rs 413 Besides, 2,971 trees were freed without cost in Jubbulpor-Naisinghpur and Chhindwara Divisions.
  - 127. Drought. No damage is reported from any Division.
- 128. Wild anim ils.—Considerable damage is reported to have been done in Jubbulpore Division and portion of Amarwara Range in the Chhindwara Division to young coppice shoots of Aonla, Dhawra Ghont and Salai by wild animals, especially sambhar and chital. In the Garhakota Reserve of the Saugor Division monkeys and pigs continue to destroy the new bamboo shoots, and although a large number of pigs including the litters were destroyed by Forest guards, yet they do not appear to be much reduced in numbers. In the Damoh Division too a good deal of damage is reported to have been caused by monkeys to young saplings and coppice shoots in recently felled areas.
- Guards without cost, but in addition Rs. 508 were spent in Mandla, Jubbulpore-Narsinghpur, Hoshangabad, Seoni and Chhindwara Divisions.

# SOUTHERN CIRCLE,

- 130. Creepers—The principal pest in the Southern Circle is the Ironi creeper (Zyziphus) which is still rampant in the Chanda, Nagpur and Bhandara Districts. Mere cutting has no effect in eradicating it owing to its coppicing powers. Splitting the stem lengthwise into four sections after cutting in the rains or early in the cold weather appears to have an effect somewhat analogous to girdling, as split portions throw out shoots which dry up in the hot weather and so exhaust the energy of the plant. Cattle are said to eat the young coppice shoots of this creeper, so that light grazing would appear to be advantageous after the creeper has been cut over. The cutting of climbers was continued on the usual small scale during the year, the area being 31,348 acres at a cost of Rs. 1,861 against 13,911 acres and Rs. 2,456 in the preceding year.
- storm or drought. Frost occurs in Balaghat and an attempt is being made to cultivate Chir pine which grows well on the uplands and is very resistant as a nurse to Sal trees. Some damage was reported in Bhandara from wind and North Chanda from hail.
- 132. Animals.—The damage done by borers and defoliators during the year appears to have been less than usual. Deer are reported to have done considerable damage to coppice shoots in the North Chanda Division where they have been preserved in sanctuaries and this is partly due no doubt to the absence of grass in the high forest.

#### BERAR CIRCLE.

- 133. Frost.—The season was mild. Some slight damage occurred in the Melghat, but the results of the severe frost of 1911 are still apparent, es ecially in the Melghat and among the babul in Bhongaon Reserve.
  - 134. Wind.—No damage is reported.

- hot weather have had very serious results on old trees, mostly saj and teak and dhavra and especially in Nimar Seedling reproduction failed almost entirely and coppice shoots of teak except in a few very favourable localities were very short and weakly.
- 136. Insects.—II iblea puera again committed extensive ravages on the teak in Betul and in the north-eastern parts of the Melghat, being apparently favoured by the dry eason. The dam ge done to babul by the Calosterna spinator in Bhongson has apparently been arrested by the thinning and priming of the young plants begun as described last year. When inspected by the Conservator the percentage of plants affected was found to be decidedly less than in the untreated area while the plants appeared more vigorous and healthy. Instructions were also given to grub up the remaining plants which showed signs of being bored by the larvagend to smash the stumps thoroughly in order to kill the grubs before they could develope. Thinning and priming were extended over 192 acres, while infected plants were grubbed up over 219 acres of the thinned area.
- 137 Rodents and other animals—Rats, squirels, haves and pigs did a good deal of damage to young bamboo scedlings in nurseries and transplants in the forests.
- 138 Fungus.—The spread of Femes pappianus on bahul in Annaoti is reported as arrested by the cutting out of infected trees.
- grubbing up in the rains at a cost of Rs. 498 A large part of this area was only lightly affected. The Divisional Forest Officer does not consider lantana as a serious menace as it occurs principally on steep escarpments where forest growth is scanty but a careful watch must be kept on its spreading into the gentler slopes suitable to teak growth.
- Caralepis Buchanani, which infests the open forests in the Melghat and smothers the young teak where it is most important to encourage all tree growth. As it sends out vigorous shoots when cut it will be necessary to deal more drastically with this pest than has been done in the past when it has been cut back only once in the felling rotation. It should be cut back at the time of marking the coupes and again during the cutting back operations, and if found in cossary at further intervals during the rotation. During the year on this system 26,484 acres of the current and coming year's coupes were cleared besides 2,225 acres specially undertaken as badly infested. In Nimar 4,700 climbers apparently of the large Bauhinia Vahlii are reported to have been cut and in Betul 293,507 at a cost of Rs. 270-7-6. Such figures of numbers are very unreliable. It is better each year to fix on certain areas to be cleared of climbers and to see that this is done which fact can be easily ascertained on inspection.

#### SECTION 4. -- SYLVICULTURE.

- (a) NATURAL REPRODUCTION.
  - (i) Seed Reproduction.

#### NORTHERN CIRCLE.

141. Reproduction of seed was on the whole satisfactory. Sal seeded fairly in most parts of the Mandla Division, but in the Jubbulpore-Narsinghpur Division it was not so good. In Saugor, Damoh, Chhindwara, Iloshangabad and Southern Ranges of Seoni, teak and other species seeded fairly. Harra crop was above the average in Mandla but not good in Jubbulpore-Narsinghpur. Bamboos flowered sporadically in Mandla, Hoshangabad, Seoni, Jubbulpore-Narsinghpur and Saugor Divisions, but did not produce much in the way of seed.

Mohwa crop was below normal in Jubbulpore-Narsinghour, Damoh and Seoni. In the Chhindwara Division the best reproduction of teak has been in areas burnt over and along the banks of the Pench River. In Seoni the seeds of Bija were largely destroyed by insect attacks and the seeding of Saj particularly was below normal

#### SOUTHERN CIRCLE

Production of seed of the more important species was good throughout the Circle Reproduction by seed appears to be as poor on areas absolutely closed to grazing as on open areas which are always very heavily grazed. It is probable that light grazing or closure for short periods would be beneficial. Whether five year periods of alternate opening and closing will serve the purpose remains to be seen, it is being tried in some Divisions.

#### BERAR CIRCLE.

143. Reproduction from seed was generally poor, owing possibly to the lowering of the vitality of most species by the drought of the previous year but more probably to the wint of moisture in the soil from the short rainfall. In the Melghat alone is reproduction reported as normal and in Akola as fairly good in favourable localities. Generally, germination was poor and most of the seedlings that appeared perished before the mins. Formation of seed was generally poor with the exception of babul and in some places khair which as usual seeded profusely. Teak appeared to seed finly free but the seed appeared small and probably the percentage of fertility was low. Anjan failed to form much seed.

#### (ii) Reproduction by Coppice.

#### NORTHERN CIRCLE

represented to produce coppice shoots or produced a miserable crop. It is observed by the Divisional Forest Officer, Hoshangabad, the results obtained by cutting back sal poles damaged by selection fellings in Banjar and Motinala Ranges of the Mandla Division was unsatisfactory. In the Damoh Division it is noticed that Ganja (Odina Wodier) and Salai (Boswelia Thurifera) trees of even 8" to 10" diameter have failed to coppice though neighbouring trees of far larger girth have done so; also that in the Seoni Division many of the shoots of older teak and Saj trees either failed to produce coppice shoots or produced a miserable crop. It is observed by the Divisional Forest Officer, Hoshangabad, that a good deal of injury is done to the shoots of felled trees by excessive trimming, the roots being often injured by barking.

#### SOUTHERN CIRCLE.

145. Coppice reproduction is good and the almost universal custom of felling in coppice coupes throughout the rains appears to give as good results as coppicing in the dry season. The habit has grown up partly from the annual sale of coupes in July at the commencement of the Forest year which is convenient for administrative purposes and partly from the fact that poles fetch a better price in the market when felled in the rains and allowed to season slowly in the open.

#### BERAR CIRCLE.

Akola. Elsewhere it was poor, the shoots of the year being short and weakly and many of these dying off during the hot weather. In the Melghat it was found that the Korku purchasers were in the habit of felling their trees and leaving the stools undressed until they returned, sometimes two or three months later, to remove the timber. This has been stopped and it is hoped that the change in procedure will improve the coppice reproduction in the Melghat where it is generally poor.

#### (b) ARTIFICIAL REPRODUCTION (FORM No. 18).

#### NORTHERN CIRCLE.

- 147. Referring to the remarks in the last report, the sowings of teak and tins a carried out in June 1912, in the Mandla Division, resulted in complete failure. The teak sown in the gaps in Coupe No. VI near Kanha Rest-house germinated freely and most of the seedlings were alive in May. The mound sowings of various frost hardy species carried out in the Banjar and Motinala Ranges were fairly successful.
- 148. According to the directions of the Chief Conservator of Forests as noted in the last report arrangements were made to start a nursery for planting out hurra at Kisli, Mandla Division
- 149. "Macaranga" seed obtained from Assam was tried in the Mandla Division and germinated freely, but most of the seedlings were dead in December and few if any survived the hot weather.
- 150 The Kanha (Mandla Division) Eucalyptus seed sown in 1912 failed to germinate, but the seedlings sown in 1911 were about 6" high in June 1913. I his has been identified by the Forest Botanist as the E. terminalis.
- 151. In the Jubbulpore Division two maunds of Satkatha seed 'were sown broadcast (cost Rs. 4) and germinated well but could not survive the hot weather except khair seedlings.
- 152. In the above Division 300 pits were sown with Mhowa seed and fenced, and in 290 of them seedlings were produced. 680 seedlings and saplings of previous years were also fenced (cost Rs. 11). All these were found to be doing very well.
- 153. Nineteen thousand six hundred and fifty-three offsets of bamboos in Jubbulpore-Narsinghpur (cost Rs. 114) and 50 in Seoni were planted resulting in lailure. In the Garhakota Reserve, Saugor Division, 9,000 pits were sown with seed and offsets (each in equal number) at a cost of Rs. 437 and watered in the hot season (cost Rs. 162) but a large proportion of offsets only appeared alive, the seedlings not having survived.

The seedlings planted in mounds in 1910-11 and 1911-12 (in Saugor Division) were a failure.

154. In the Saugor Division, 1,200 patches were sown (in the Mohli block) with Anjan seed (two years old and not very good) during the year and germination was satisfactory in 338 patches. Also of the seedlings sown in 1911 those that germinated are in excellent condition, some of the three years old being three feet high in December. As to the sowings of the above species in the Saugor Range, of the same Division, last year, a number of them re-appeared with the monsoon contrary to what was mentioned in the last year's report.

A bamboo nursery was started at Mundra (Saugor Range) for planting out bamboo seedlings in Juliunder Felling Series.

- 155. In the Hoshangabad Division 80 sandal seedlings, reared in the Sohagpur garden, were planted out in Binaika Felling Series, but only 12 survived having been planted in the shade, others being under too light a cover.
- 156. In the Seoni Division 1,714 teak seedlings from the forests were planted out to fill gaps at Korai and Rukher and 1,223 were found to be doing well.

#### SOUTHERN CIRCLE.

157. The artificial propagation of trees in this Circle is only carried out on a very small scale in various divisions. This consists of the sowing of seed of various species but is of such a petty character that it can hardly be said to be beyond the experimental stage.

#### BERAR CIRCLE.

- 158. Regular Plantations.—The bamboo plantation at Yeota in Akola gave a revenue of Rs. 601 or Rs. 24 per acre. This was obtained from the sale of 3,532 bamboos exploited departmentally. This only gives an average of about 2 annas 8 pies per bamboo which appears low as the piece of Kattang bamboos in Berar
- 159. Taungya system.—In the Amraoti, Buldana and Akola Divisions a total area of 671 acres was felled clear and given out for cultivation with forest seeds combined with field crops. Of this area, 531 acres were in babul bans and 140 acres in mixed scrub forests. In the area already under this system the results in stocking the land are generally good. The modifications in the rules whereby the period for cultivation of cotton is extended appear to make the system more popular while the attacks of the beetle appear to be diminished. In one area in Buldana germination of babul seed failed owing apparently to defective seed; in Akola one lessee failed to sow seed according to orders and his lease was cancelled while another was fined for the same fault. The results of this system of regeneration are on the whole very promising.
- ations was not so great as in the previous year owing mainly to the failure of the seed which was obtained from Mysore to germinate. As usual rats, squirrels and porcupines did considerable damage in nurseries and pigs to the transplants in the forests. In Yeotmal the experiment was tried of getting local malis to rear the young bamboos in their gardens, but it is understood that it has not been completely successful. Babul and num seed were sown in various areas where the laungva system was not taken up by the people. Teak was sown over 300 acres in Buldana and anjan over 4 acres without much success. Generally such direct sowings in the forest are not of much use as the results are very poor and the trouble and expense of weeding and upkeep are considerable. The sowings of sandal in Akola are very promising, some 3,000 plants being reported as in a flourishing condition at the beginning of the rains in various localities. In Buldana the success was not so great.

## (c) OPERATIONS FOR THE IMPROVEMENT OF GROWING STOCK. NORTHERN CIRCLE.

161. The work of cutting back operations was carried on over an area of 27,775 acres at a cost of Rs. 7,774 as against 21,899 acres and Rs. 5,364 as cost during the preceding year.

In the Hoshangabad Division the above operations were carried out on more extensive and thorough lines than in the past.

In the Damoh Division the cutting back of 6,194 lac bearing Ghont trees was continued at a cost of Rs. 83.

#### SOUTHERN CIRCLE.

162. Cutting back operations were carried out in all Divisions either by purchasers under the terms of their agreements or departmentally. The following statement compares the work done departmentally during the year with that of the previous year:—

				Area.	Cust.	Revenue.
				Acres.	Rs.	Rs.
Balaghat	•••	<b>a14</b>		314 1,165	326 80	429
Bhandara North Chanda	***	444	444	979	8o 359	, 962
South Chanda	***	uta .		4,045	1,256	**
		Total	***	6,503	2,021	1,391
		Total for 1911-12		5,160	2,749	3,041

The work shown as improvement felling in South Chanda last year has this year been included in cutting back operations with which it was combined; cutting back during the year under report being confined to creepers has been included under creeper cutting.

#### BERAR CIRCLE.

163. Thinnings were carried out in babul bans in Amraoti, Buldana and Akola. The inferior material remaining in coupes worked in previous years was cut back in all divisions. The results are shown in the following statement:—

Division.		Area in acres.	Cost.	Cost per ac	re.		Revenue from material obtained,
	Ť	Acres.	Rs.	Rs. a	P	$\cdot  $	Rs.
			Thu	ening.		1	
Amraoti		259	345	1 5	:	3	1 278
Buldana	-	314	103	0 5	: :	3	169 Value of material unsold Rs. 48.
Akola		71	311	4 6	5	1	1,023
Total		644	759	1 2	1	0	2,470
Figures for 1911-12		937	950	1 (	>	3	1,687
		•	Cutti	ng back.			
Melghat		17,305	4,370	1 0	4	0	923
Amraoti	1	1,029	2 <sup>9</sup> 9	0	4	6	475
Buldana		2,122	1,244	0	9	5	591 Value of material unsold Rs 727.
Yeotmal		2,188	3,177	1	7	3	1,066
Ako¹a	"	1,974	2,090	I	1	0	1,416 In addition a balance of last year's stock was sold for Rs 335.
Nimar		9,209	1 870	0	3	3	1,218
Betul	•••	7,149	1,219	0	2	8	180
Total		41 063	14,259	0	5	7	5,869
Figures for 1911-12	•	3 ,298	10,447		4	6	13,358

Pesides the above 1,364 malformed and frost-bitten teak and tinsa were cut back in Betul at a cost of Rs. 134.

- and Akola and a greater proportion of worthless material was removed than was formerly the case. Enquiries made by the Conservator in Akola showed that in the more accessible forests cutting back operations properly performed are decidedly remunerative, but that the original lessees are not satisfied with a mere 50 per cent profit on their outlay on these works and therefore leave much material uncut which fetches a ready sale. There is possibly some small risk of the material not being sold which appears to deter them. The Divisional Forest Officer was instructed to try to induce lessees to do more of this work in favourably situated coupes, but in the remoter forests we shall have to rely on departmental working for these operations for some years to come.
- 165. Besides the above operations in Bhongaon Reserve the young growing stock of babul was pruned and thinned over 411 acres at a cost of Rs. 640 and the stems of infected trees were smashed in order to destroy the larvae of the coelosterna spinator beetle and restrain its ravages.

## (d) EXPERIMENTS. NORTHERN CIRCLE.

166. In the Jubbulpore Division experiments to test the effect of the season on felling in coppice reproduction were conducted in the Jubbulpore Range under the directions of the Imperial Botanist and the results of measurements of coppice shoots were communicated to him.

- 167. Further experiments made in the old Narsinghpur Division to test the effect of Salai for producing good coppice or pollard shoots resulted in failure as usual In the Jubbulpore Forests in several instances salai below 3 feet in girth was found to produce fine coppice shoots and they were also found to live in a healthy condition during the last 10 years.
- November to May, on tree growth and development of Forest crop are still being continued in the Damoh, Saugor and (old) Narsinghpur Divisions. The Divisional Forest Officer, Saugor, reports that arrangements were made for further ring countings of teak in Garhakota Working Circle and other localities. Some teak sections have been obtained and the ring countings will be carried out. For Narsinghpur and Damoh, no definite results are reported. In Damoh the measures relating to this experiment were only carried out during the year.
- 169. In the Jubbulpore-Narsinghpur Division lac was experimentally planted on 1,895 Palas (or Butea) trees (cost Rs. 9) with a view to produce seed lac for the Dhanwahi Forests and the result has been fairly good. Also 1,990 Ghont trees exhausted by the constant bearing of lac were cut back in the Murwara Range (cost Rs. 35) resulting in fine vigorous coppice shoots.
- 170. In the Hoshangabad Division one-fourth acre was planted and one-fourth sown with "Tur" in the Schagpur garden. The young "Tur" plants were infected with lac at the beginning of the cold weather. The larvae swarmed but were all killed off in May probably owing to excessive heat. It is believed that this experiment has been tried and proved a failure at Pusa and its repetition here seems scarcely worth while, 200 young "Kakra" (Butea Frondosa) seedlings were planted in the Schagpur garden and will be infected with lac in the next cold season. The cost of these experiments was Rs. 23. At Churna in the Bori Range 4½ acres of land was ploughed up, cost Rs. 27 and 3 years' old "Kakra" seedlings were planted over one-fourth acre and 80 per cent have survived and thrown up good vigorous shoots Kakra seed was sown in the rest of the area in June last. It is proposed to infect these with lac next cold weather. The cost amounted to Rs. 316.

In Damoh a small experiment was carried out to test the powers of certain species to reproduce from cuttings and with this object 8 cuttings of teak, 2 each of Seja, Saj and Cheola and 3 each of Ganja and Salai were planted in the Sagoni Rest-house compound. All failed except in the case of one, Ganja. This cutting was 2 to 3 inches in diameter. The Divisional Forest Officer remarks that the fact that even one "cutting" of Ganja in three was established itself is interesting as Ganja will not coppice freely. The matter is of interest rather than importance as Ganja is a species of very little use.

Instructions were issued to all Divisional Forest Officers in the Circle by the close of the preceding year that the rules in regard to future sample plots should be carefully observed and they were directed that the existing sample plots be brought into line with the rules, new registers being opened and the information already collected utilized as far as possible.

#### SOUTHERN CIRCLE.

- 171. Plots have been started in several Divisions for the purpose of ascertaining the rate of growth of trees of various species, the rate of coppice growth, the effect of thinnings on coppice shoots, the effect of measures to eradicate Ironi creepers, the yield of grass for fodder on different soils and under varied conditions, and the incidence of cattle grazing and the effect of the same on forest growth These were dealt with in some detail in last year's report and it will take some years yet to come to any definite conclusions.
- 172. Chir Pine is doing well in Balaghat on the Raigarh plateau and sandal wood is tending to reproduce itself naturally from the seed from the plantations in North Chanda which are carried probably by birds and germinate on the shady banks of neighbouring streams.

#### BERAR CIRCLE

- 173. The sample plots formed in Buldana and Akola to ascertain the correct intensity for thinnings in babul bans and those to investigate the varieties of babul were maintained as also were those in Buldana and Nimar to ascertain the correct height for pollarding anjan and to ascertain the best conditions for seed regeneration of the same species.
- 174. Experiments were started in Melghat to ascertain the possibility of introducing Sainar (fodder) and Motia (rusa) grass into areas where these species are not found.

In Nimar and Melghat experiments in tapping Salai for resin were continued. Those in Nimar are the more promising and they will be continued in both Divisions.

Two hundredweight of fibre of *Ilelicteres Isora* were sent to Dundee from Melghat for trial as a substitute for hemp.

175. Processing of timber.—The specimens of powellized and untreated timber under observation at Khandwa since 1910 gave further results as follows:—

In Betul 300 sleepers of Saj were treated under the direct supervision of the Forest Economist by a double treatment of Zinc chloride and heavy oil. The sleepers are to be made over to the Great Indian Peninsula Railway for trial in the railway track.

Experiments are in progress in various localities to ascertain the best methods of treatment of the more valuable fodder grasses under different conditions.

#### SECTION 5.—EXPLOITATION.

- (a) SYSTEM OF MANAGEMENT.
  - (i) Major Forest Produce.
    NORTHERN CIRCLE.

# 176. Selection fellings.—In the Mandla Division in accordance with the provisions of the Working Plan, 1,971 and 848 Sal trees were selected for felling during the following year, respectively, in Coupe V of the Motinala Range and IX of the Banjar Range against 1,848 and 1,169 trees, respectively, of the last year. The area covered was 1,846 and 545 acres, respectively. 329 Sal trees were felled by lessees in Coupe VII and 552 in Coupe VIII of the Banjar Reserve against 395 trees of the preceding year; 937 trees in Coupe III and 855 in Coupe IV of Motinala, and 110 trees in the Khanat Forests were felled by lessees during the year against 1,945 in Motinala and 120 in Khanat Forests during the preceding year. 250 Bija trees were felled in the Mandla Range over an area of 200 acres.

177. Improvement fellings.—24,264 acres were worked over under this system as compared with 28,383 of last year. 5,091 acres could not be worked over due specially to the dearth of labour more or less keenly felt in almost all the Divisions, also some of the coupes remaining unsold for want of demand. In the Garhakota Reserve of the Saugor Division fellings were much heavier than in the past, particular attention being paid to the removal of inferior species interfering with the growth of teak. The fellings in the Bori Forests of the Hoshangabad Division were again postponed until the completion of road and offer of a satisfactory price for the lease of coupes.

- 178. Coppice with standard fellings.—14,053 acres were worked over under this system as against 9,726 acres of the preceding year. In the old Narsinghpur Division only 7 out of 11 coupes (opened during the year) could be sold, and even out of these 7, one was not touched at all by the lessee owing to the poor quality of the crop.
- 179. Unregulated fellings—The work was carried out in all the Divisions, except Chhindwara, and restricted generally to the nistar areas as well as those in which the prescriptions of the regular Working Plans were held in abeyance. This was moreover permitted in the Mandla Division to the extent of removal of teak and Soj timber of inding on excised areas and on Ryotwari Waste.

The orders of Covernment on the question of restricting unregulated fellings by commuters in the Mandla Division (referred to in the last Report) were awaited at the close of the year.

#### SOUTHERN CIRCLE

- 180 Selection fellings—These were undertaken in the South Chanda Division only, 3,814 trees being felled by the lessee of the Allapilli Block in compartment 13, area 480 acres. Some of the saleable teak left over from last year's operations were also exploited during the year.
- 181. Improvement follings—These were undertaken in all Divisions except Nagpur-Wardha over an area of 18,367 acres as compared with 13,350 acres in the previous year and 10,027 acres in 19,0-11. The principal increase occurred in the Balaghat (+2,238 acres) and Lilaspur (+2,410 acres) Divisions. In Balaghat this was due to the opening of cert un areas in the Paraswara and Dhansua Ranges for the removal of dead and dying teak trees in addition to the ordinary improvement fellings in the Sal areas of the Raigarh plateau. In Bilaspur the increase is due to the introduction of new Working Plan prescriptions. In North Chanda the old Working Plans prescribed improvement fellings but in practice these are really coppied with standard fellings and come under that category.
- 182 Coppice with standard fellings.—This is the system most generally in use in all Divisions except South Chanda There was little increase in the total area worked over, being 40,290 acres compared with 40,096 acres worked in the preceding year. There are considerable arrears in certain Divisions from Working Plan prescriptions. There were deficits amounting to 1,095 acres in the Bhandara Division brought forward during the three years the plan has been in force. These are made up as follows:—
  - From 1910-11 316 acres, from 1911-12 730 acres and from the year under report 949 acres. In the Nagpur-Wardha Division 2,273 acres out of 9,001 remained unworked; this is the first year in which coupes were exploited according to the prescriptions of the recently revised Working Plan, the heaviest deficits being in the Umrer and East and West Pench Ranges.

#### BERAR CIRCLE.

183. These were made over 578 acres in the babul bans of Amraoti,

Clear fe lings,

Buldana, and Akola Divisions as compared with 460 acres in the previous year.

Improvement fellings. 184. 28,385 acres were worked under this system as compared with 27,114 acres in the previous year.

185. 23,080 acres were worked under this system as compared with 13,189

Copplice with Standards.

Copplice with Standards.

Owing to various causes and the return to a more normal figure is due mainly to the removal of labour difficulties.

Unregulated fellings.

186. These were made in the C Class areas in Berar and in the Nistar areas of the A Class in Nimar and Betul.

#### (ii) Minor Produce

#### NORTHERN CIRCLE

187. The principal items of minor produce obtained from the forests are --

Harri—The total value of haria removed from the forests during the year amounted to Rs 22,579 as against Rs. 14,065 during the proceeding view. The great reart of the work was done departmentally in the Mandla Division owing to inadequae, of offers from lessees.

Lac.—The value derived from this produce was Rs 1 .333 c compared with Rs. 15,622 obtained in the previous year

Measures were taken to prune coppies or infect the lac hearing trees specially in the following Divisions.—

Jubbulp re-Natsing hpur...1,895 Palas and 1,090 Ghout treesHoshangabad...11,576 various treesSeoni...850 Palas and other treesChhindwara...2,404 Palas and 503 Kusum trees

The Divisional Forest Officer, Hoshangabad, reports that the year was again disappointing as regards lac. The propagation in June and July was a failure as the majority of the larve was washed away by rain. The infection in November was successful but the greater part of it could not survive the hot weather. In Chhindwara the crop of last year is reported to have been damaged by monkeys and ants with the result that it was poor during the year under report. In the Damoh Division the crop is reported to have suffered from the prolonged hot season of 1912.

Mohwa and Achar.—This produce was almost entirely removed by purchasers and fetched Rs. 4,452 against Rs. 5,771. Free grants were only nominal and to the value of Rs. 19 against Rs. 1,492 during the preceding year. In the Damoh, Saugor and Jubbulpore Divisions the crop was poor owing to its destruction either by hail stones or unseasonal rains.

Hines and Horns.—The revenue obtained from this produce was Rs. 7,600 against Rs. 9.315 of the previous year. This is a difficult item to estimate with accuracy but from the market prices at present quoted, it seems that a larger return should be obtained.

Bamboos.—The total value derived from this produce was Rs. 57,346 against Rs. 53.912 of last year, viz., by removals by purchasers Rs. 47,240, by leases Rs. 4,640 and by commuters Rs. 5,465. In addition, removals by free grantees amounted to Rs. 509 against Rs. 840 during the last year. In the Hoshangabad Division all the coupes of Magardha, Hoshangabad and Rahatgon Ranges and one coupe of Sohagpur were leased out on the Monopoly plus Royalty system, but the results were disappointing as instead of opening an export trade the lessees acted as middlemen and sold the produce to local purchasers. The areas in the Dhain block are as yet unworked. It is proposed to work a portion of this block by lease.

Grass.—The revenue obtained during the year as compared with that in the preceding year is shown below:—

				During the year.	During the pre- ceding year.
				Rs.	Rs.
By leasos	*14		]	14,696	12,670
By commuters	•••			4,736	4,702
By purchasers	***			4,642	2,018
Departmental agency	145	1		<b>5</b> 6,657	1,00,690
Free granices	720			693	881
		Total		81,424	1,20,961

The decrease during the year is all due to the supply of grass during the preceding year to the Bombay Presidency Again, the figures for the year include nearly Ps. 54,000 realized in the Hoshangabad Division during the year for grass supplied to Bombay law year

Graving —The following abstract of R am Ma 17 Mounth rumb to cort'e grazed at full rates, privileged rates and her of charge during the year and the preceding two years.—

<del></del>		At Iuli 1 to			/11	ı ileş i	t .			Ir.c.		·····
Year	I all do	O her animal .	Vilne received.	Buh •	er in'		Actually re 1	V linat	Buffi- loe cou	Jther	Vilue 1 of fill rat	Tetal ale t ali t
	, No	No	Rs	No	N,	No	Re	lv«.	``,	No	Rs	Rs.
1013 17 1311,43 1310 14	. 1 \$1,46 . 1 \$1,46	0 77,591	1,91 768 2,01,607 1,07,111		13 3 15 59, 9,5 590 126	j	6 , 27 73 3 ? ` 57,8 3		12,083		1.150	7,7 ,177 1 37,807 6,62 879

The following are the details, by classes, of the animals on which full rates were paid:

ton man ton man of	Rate.		Buffaloes	Cous and buils	Goats and sheep.	Other animals.	Total
Ordinary	000		51,424	1,67,669	27,863	667	2,47,628
Nom idic	***	••	2,296	20,038	55	1,424	23,813
Commercial	***		1,20,002	2,20,269	45,073	2,777	388 131

The incidences of grazing on the total area in the several Divisions are:—Mandla 4'07 acres per head; Jubbulpoic-Narsinghpur 340; Damoh 243; Saugor 2'50; Hoshangabad 6'78; Seoni 2'70 and Chhindwara 2.17. The total incidence for the Circle comes to 3'00 as against 3'16 during the last year

The question of reducing the grazing in the Garhakota Reserve was enquired into and it was agreed to reduce the number from 500 to 270 from the current year.

In accordance with the suggestion of the Chief Conservator of Forests in his Inspection Note for 1011 selected areas in some of the Felling Series permanently closed to grazing under the Working Plan were opened to limited grazing for short periods with the result that it appears to have been beneficial to the Forest and has assisted natural regeneration.

#### SOUTHERN CIRCLE.

These are sold on licenses in all Divisions. The supply is most alumdant in the Balaghat, Bhandara and Chanda Divisions and the shortage in wagons on the Railway already noticed has had the usual prejudicial effect during the year under report. The plan of permitting bamboo traders to cut and collect bamboos in the open coupe and then to remove them on license has helped to increase sales and will be continued. There is considerable competition with the Zamindari forests, the owners, of which tend to undersell Government, this was particularly noticeable near the Pertabgarh Range, Bhandara).

Bamboos are usually sold by the hundred, in some Divisions the cartload rate is in force, and in others single bamboos are sold at rates varying from one to three pice each.

- 189. The new grazing rules were introduced during the year. Cattle in the province are mainly grazed on privileged rates which is dealt with subsequently. As already explained grazing is universal except in certain areas in high forest and in coupes closed to permit of coppice reproduction.
- 190. The traffic in this produce was dealt with departmentally, leased out for sold on license. The blocks of forest more or less permanently reserved for fodder and called grass birs are usually leased out for the year and the coupes temporarily closed to grazing are open for the supply of fodder grass to individuals on licenses under the stamp system. Generally speaking, the former system is most profitable to Government.
- Thatch Grass. Sold from grass birs is retailed for thatch. The distinction is purely artificial as the same grass is often used for both purposes and its suitability depends on the season of cutting, almost any grass cut early in the year is suitable for fodder and very few grasses cut after seeding contain much in the way of nutriment. As regards sales on license, grass cut early is removed at a low royalty to encourage stall feeding, but the date after which grass is classed as thatch grass varies in different Divisions from the 15th October to the 1st January.
- Myllolans.

  in the Balaghat and Raipur Districts where the Terminalia Chebula is most abundant. The crop in Balaghat was sold in 1911-12 for Rs 27,000 and in the year under report was least d for three years at an annual rental of Rs. 6,667. The variation in annual yield of this product is considerable as will be shown by the following returns showing exports from Railway Station:—

1902-10	1910-11.	1911-12.	1912-13.
tons	tons.	tons	tons
5,858	1,010	570	2,787 (7 months.)

In the Raipur Division the Hurra crop for the year was sold for Rs. 3,221.

Lac. Was exploited departmentally in the Raipur Division and royalty was also realized on lac propagated on trees in Reserved Forests. The year under report was not a good one

194 The right to collect other miscellaneous minor produce is almost invariably leased out, licenses being only issued when the supply is small and unimportant.

#### BERAR CIRCLE.

195. Bamboos are removed on a 3-year rotation except in the Melghat and the Tapti Range where the rotation is 2 years. The revenue realized was Rs. 66,042 for removals by purchasers, Rs. 1,015 from departmental extraction, while bamboos to the value of Rs 4,569 were taken by free grantees and right holders. There was a drop of Rs 5,601 in the value of bamboos removed in the Melghat, due to the adoption of the figures for commutation fixed by the 1912 Conservators' Conference.

Rusa grass.—Extraction of the grass and the lease of the right to extract rusa oil yielded Rs. 33,491 as compared with Rs. 33,345 in 1911-12.

Harra—yielded Rs. 1,951, the crop being very poor.

Mohwa and achar-brought in Rs. 1,204.

Hides and horns—revenue amounted to Rs. 4,211.

Lac-which has nearly disappeared from the forests, yielded Rs. 614.

Mineral products—produced Rs. 10,041.

Grass—was sold on licenses and passes, by lease and on commutation. It was also worked departmentally in all Divisions, excepting Amraoti.

The quantity of grass removed was 166,256 tons on which a revenue of Rs. 1,61,547 was obtained, besides which the value of grass removed on free passes was estimated at Rs. 5,247, as compared with 168,486 tons, Rs. 1,92,964 and Rs. 4,070 for 1911-12.

196. The following table shows the number of animals grazed at different rates and free of charge:—

	At full rates.					At privileged rates.				Free.			lotal fees.	
Year.	Year.					Came		Fee	Fees.			Value		Value
		cows and bullocks.	Other animals.	Value received.	Buffa- locs.	and am	Actuals.	Value at full rates	cows and bullocks.	Other animals	at full rates.	Actuals.	at full rates.	
		No.	No	Rs	No	No.	No	Rs.	Rs.	No	No.	Rs.	Rs.	Rs.
1918113		1,246 55 2	497,800	4,69,096		137,153		8,603	S1 557	211.979	137	42,317	4.77 699	5,61,980
1911.12	••	1,235,983	421,876	4,99,501	39	127,281		8,022	45,192	226,409	640	44,841	4.37 523	5.20,534

The totals are not quite correct, owing to an error by which fees were collected in the Melghat from ryotwari villages as was customary before the Settlement. When the mistake was discovered these fees were returned as far as possible, but the exact number of cattle which actually entered the reserves could not be ascertained.

In Berar proper the number of cattle grazed at full rates altered as follows:—Buffaloes increased from 164,216 to 166,422. Cows and bullocks from 870,197 to 886,958. Sheep and goals from 416,387 to 491,754. Other animals from 3,465 to 3,476. The total fees increased from Rs. 3,21,672 to Rs. 3,47,367.

The number of cows and bullocks grazed free under concessions made by Government fell from 225,837 to 206,352. This reduction is really a paper one, as in former years it was the practice to issue free passes to many persons who did not avail themselves of them. This has now been stopped.

Under the grazing rules as applied in Nimar the number of cattle grazed at ordinary rates altered as follows:—buffaloes rose from 21,899 to 22,318, cows and bullocks from 28,611 to 33,822; at nomadic rates the numbers fell, buffaloes from 2,621 to 1,570 and cows and bullocks from 4,069 to 3 802, while numbers at commercial rates fell, buffaloes from 16,258 to 15 092 and cows and bullocks from 35,620 to 34,262. The number grazed at privileged rates rose from 76,781 to 85,906.

In Betul the number of buffaloes at ordinary rates fell from 11,774 to 3,904. while those at nomadic rates increased from 5,768 to 15 580. The number of cows and bullocks similarly altered, those at ordinary rates falling from 46,244 to 22,398 and at commercial rates rising from 18,082 to 40,424.

The total numbers are in each case much the same as last year, the variations under the heads of ordinary and commercial being due to better classification.

Grazing at privileged rates was granted to 51,047 cows and bullocks as against 48,754 in 1911-12.

- 197. The grazing incidence in A Class forest in Buldana stood at 1'9 acres per head, in Amraoti at 1'2, in the Melghat at 7'2, in Yeotmal at 2'7, in Akola at 1'6, in Nimar at 6'4, and in Betul at 4'5 per head.
- In C Class areas in Berar it stood at '5 acres in Amraoti, 6 in Buldana and Akola, and '7 in Yeotmal. The incidence is calculated on the basis of 1 buffalo being equal to 2 cows or bullocks.
  - (b) AGENCY OF EXPLOITATION (FORMS NO. 19 & 20).

### (i) Department Agency. NORTHERN CIRCLE.

198. Major Produce.—The outturn of timber and suel cut and collected by departmental agency during the year was 359,381 and 538,921 cubic feet, respectively, as against 172,861 cubic feet of timber and 349,160 cubic feet of fuel in the

preceding year, and was obtained chiefly from the improvement fellings and cutting back operations carried out for the improvement of forest growth, and from timber, etc., cut in the widening of fire lines and for the construction of roads. A small quantity was also extracted for the construction of departmental buildings.

As explained in the last report exploitation was undertaken departmentally in the Damoh Division with the object of inducing contractors to take up work later on. The outturn of timber and fuel thus collected during the year was 225,000 and 443,535 cubic feet, respectively, as compared with the corresponding figures of 54,800 at d 264,830 cubic feet of the preceding year. The increase during the year is due to the operations having been undertaken on a considerably extended scale. The increase is also in a measure ascribed to the factors newly adopted to reduce timber, etc., to cubical contents.

The revenue derived from departmental major produce during the year was 21,252 or 2 19 per cent of the total revenue of the forests for the Circle.

199. Minor Produce.— Bamboos 190 tons: Hura 751; Lac 2; Hides and Horns 3; Mineral Products 73; other minor produce 80, and grass 1,075 tons were extracted departmentally to the value of Rs 22 368 exclusive of Rs 51,000 realized on account of grass supplied to the Bombay Presidency during the preceding year. If this latter item be included the percentage with reference to the total revenue is 7.85 per cent.

200. On the subject of baling of grass for sale to agriculturists for encouraging stall-feeding, it may be stated as follows:—

Although the operations were not successful in the past it was under Government orders that they were again undertaken during the year, in consultation and with the assistance of the Agricultural Department.

In the (old) Jubbulpore Division, at Kakartala, grass was baled to supply the Agricultural Experimental Farm at Adhirtal. 70 balls weighing one maind each and 260 weighing half a maind each were made which, excepting 4 bales destroyed by cattle, were all delivered at the Farm. The object was to test the quality of the grass. The result is not yet known. The cost of the operations was Rs 97 and the revenue realized Rs. 102.

Similar operations were undertaken in the Khairi Range of the (old) Narsinghpur Division with a view to train the subordinates in the baling of grass and to supply baled grass to agriculturists for encouraging stall-feeding of cattle. When 24 bales were ready all the grass collected was spoilt by rain which continued for some days and the operations had consequently to be given up and the grass disposed of for what it fetched. The revenue realized was Rs. 75. No agriculturist came forward to purchase baled grass and it was therefore sold to the officer in charge of the Colliery at Mohpani. The cost on the operations was Rs. 39.

In the Damoh Division 195 bales (average weight  $2\frac{1}{2}$  maunds) each of selected grass were prepared. To encourage sales 10 bales were sent to Bansa vilage, 41 to Hindcria and 8 to Patera. These villages lie in the Hatta-Damoh Haveli. Of these 59 bales, only 9 could be sold, though offered at cost price, vis., Re 0.8-3. The quality of the grass was good as it had been specially selected at the suggestion of the Deputy Director of Agriculture at Jubbulpore. The Divisional Forest Officer is of opinion that the only way to induce agriculturists to purchase baled grass is to cut the grass just before it flowers and as soon after as possible. The cultivators may at their convenience bale it themselves. They might also, to start with, bring their own baling wires, obtained on deferred payments from the Revenue and Agricultural Department. These wires can be used with care several times. The total quantity of grass cut was 96 tons, of which 71 tons were baled.  $4\frac{1}{2}$  tons baled and 8 tons of loose grass was sold to agriculturists and  $62\frac{1}{2}$  tons baled and 5 tons loose to other purchasers. Of the balance of 16 tons (4 tons baled and 12 tons loose) 5 tons were sold at the close of the year and 5 tons used for thatching huts for road coolies. The remaining 6 tons will possibly have to be written off. The total cost of the operations in the Division was Rs. 595 and the revenue realized Rs, 635.

In the Saugor Division all the grass areas near Saugor and the Railway are taken up every year by the local contractors or by the Military Grass Farm authorities. Banda Range was, therefore, the area chosen for such operations in order to test the attitude of the agriculturists. A depôt was formed at Baraithi, 33 miles from Saugor. The grass which was of good quality (not more than 25 per cent being "spear" grass) was cut in November-December. 403 bales (of an average weight of 1½ maunds each) weighing in all 22 tons were prepared in January-February and offered at first for Re. 0-12-0 per bale. The sale of grass was widely advertised with the assistance of the Deputy Commissioner and the Revenue staff. By the end of June only 153 bales were sold for Rs 75 at Re. 0-9-0 and Re. 0-6-0 each. 250 bales still remain unsold, and asit would not pay 10 bring them into Saugor for sale they will have to be written off. Of the 22 tons cut and baled, 3 tons were sold to agriculturists and 5 to other purchasers.

In the Hoshangabad Division 581 bales (weighing from 2 to  $\mathcal{L}_2$  maunds each) were prepared 2t a cost of Rs 519. Of these, 189 were sold for Rs. 271 and the rest remained unsold, although every effort was made to sell it to agriculturists. The quality of grass is undoubtedly poor, the majority of it being "sukli," and in addition slightly discoloured and damaged by rain in November.

The following statement shows in brief the above operations carried out in the above four Divisions:—

	Quantity of grass di posed (in time)  Quantity of grass di posed of to		pased	լո <sub>թ</sub> սո կ	remain- spased it						
Divletons,			A <sub>t</sub> rici	uliurists	Oth	ier#			Total Resenue.	Total expend - ture,	f'ett.rks
	Baled	Laase.	Paled	I oose	Palad	100 4.	Baled	I 00 <e< td=""><td></td><td></td><td></td></e<>			
						1,1			Rs. a. p	Raap	
Jubbulpore- Ansinghpur.	7 14		7		14		•••	•••	101 13 0	97 20 0	Sold to Supe literdent, Lip i mintil Fum, at A hartil
Damoh .	71	#\$	43	8	52]	•	**1	*12	63¢ 0 0	(n) \$9.0 o	's Tone sold ofter close of the 3c o
Sangor	22	***	3	41	\$		11		71 13 0	145 3 0	(a) Includes 1 a ton cost of wire (for takes)
Hoshangabad	46	,,,	15				31		971 8 a	518 rm o	purchised in pre-

GRASS OPERATIONS FOR SUPPLY TO THE BOMBAY PRESIDENCY.

201. As noted in the last report 7.050 tons of fodder grass was to be supplied from this Circle to the famine-stricken districts in the Bombay Presidency. This was arranged to be supplied as follows:—

Hoshangabad			***	Tons. 6,500
Jubhulpore	***	444	•••	400
Damoh	***	•••	***	550
Saugor	34.4	41#	***	500

As explained in the last Report, owing to the difficulty in the supply of waggons the operations ended with the following result:—

	Di	rision.			Quantity in tons.	Expenditure,	Revenue.
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************	THE RESERVE OF THE PERSON OF T				Rs.	Rs,
Hoshangaba	đ ,,,	4			3,185	95,815	1,08,450
Jubbulpora-l	Varsinghpur	***			398	10 476	14,388
Damoh	The	***			418	10,939	14,097
Saugor	***	414		111	484	16,342	17,236
			Total	·n	4,485	1,33,572	1,54,171

Of the above the following figures relate to the previous year (1911-12):-

	Di	vision.			Quantity in tons.	Expenditure.	Revenue.	
						Rs.	Rs.	
Hoshangaba	d				2,368	54,435	54,454	
Jubbulpore-N	larsinghpur	441		4.	398	9,206	9,064	
Damoh	•••	•••			367	9,289	12,660	
Saugor	***	•••		••	460	15,993	14,860	
			Total	•••	3.593	88,922	91,038	

and the following figures to the year under report:-

	Div	rision.			Quantity in tons	Expenditure	Revenue.
						Rs,	Rs.
Hoshangabad .		***		•••	817	41,380	53,996
Jubbulpore-Narsin	ghpur	•••		•••		1,270	5,524
Damoh .		• ***		***	51	1,651	1,437
Saugor .	••	•••			24	349	2,376
			Total		892	44,650	63,123

The total amount of grass despatched differs from that shewn in the last year's report as the present figures include an item of 21 tons which was despatched from Danish but was not delivered, and having decayed was destroyed by the Railway authorities. Moreover, incorrect figures were received from one of the Divisions. The grass was despatched to the following districts of the Bombay Presidency:

			1911-12.		1912-13.			
Division.		To Ahmedab∡d Uistrict.	To Ahmednagar District.	To Kaira District,	To Ahmedabad District.	To Ahmednagar District,	To Kaira District.	
		Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	
Hoshungabad	**	1,944	207	127	752	471	бѕ	
Jubbulpore-Narsinghpur	••	398	,			•••	***	
Damoh	•••	367	} ***	,,,	51			
Saugor	•••	381		79	9		15	
Total		3,090	297	206	812		80	

The figures of expenditure and revenue also differ from those shown last year, and this is mainly due to the actual adjustments not having been made by the time the last report was written.

The figures shown in the present report may be taken as finally correct.

#### SOUTHERN CIRCLE.

202. Major Forest Produce,—Departmental operations for purposes of exploitation were undertaken in North and South Chanda, Nagpur-Wardha and Bilaspur. In other Divisions the work was mainly confined to the disposal of trees felled along roads and fire lines or such material as was required for departmental buildings, &c. In North Chanda departmental working was considerably reduced owing to purchasers coming forward to buy standing trees in coupes. In South Chanda teak and other valuable trees were felled and sawn up, a beginning was made in the training of local coolies as sawyers which has been successful. These men will always be very useful for working up crooked and defective logs

In Bilaspur the more remote forests were worked departmentally in order to stimulate the export of poles and to determine what profit could be made by purchasers. It was found that fuel could hardly be worked at a profit and extraction was mainly confined to poles. The yield per acre of fuel being barely 50 cubic feet. There was an increase in departmental working in Nagpur in order to carry out as far as possible the provisions of the recently introduced working plan. This was mainly in the East Pench Range which was not sold on lease owing to want of suitable offers from probable purchasers.

#### MINOR FOREST PRODUCE.

203. In compliance with the orders of the Local Administration efforts to extend the use of fodder grass by agriculturists were continued during the year, but from the agricultural point of view were not a success. The operation of baling entails carting hay to the baling press from which it is sold, whereas the agriculturist who wants hay can very well cut and cart the hay himself direct from the meadow to his house, thus saving the expenses of a double journey. It is also found by experiment that owing to the size of the cart, comparatively few bales can be carried and no advantage is gained in carting a larger quantity, leaving out of consideration the actual cost of baling. The experiment was a success from a financial point of view as baled hay is readily bought for export to towns on the line of railway.

204. The following statement gives the result of operations called for by the Chief Conservator:—

		Giasi c bal	ut and		Grass sold		Used	Undis-	
Division.		Amount.	Cost.	To agricul- turists.	To others.	Total value received.	depart- mentally.	of at end of year.	Remarks
		Tons.	Rs.	Tons.	Tons.	Rs.	Tons.	Tons	
Bhandara	***	33	***		27	433	б	***	Cost not
North Chanda	•••	бо	894		58	1,292		2	
Nagpur-Wardha	441	114	2,794	2	76	3,310	<b>»··</b>	36	

This gives a surplus of Rs. 2,241. In Nagpur-Wardha 51 tons of unpressed grass were cut at a cost of about Rs. 234 and sold for Rs. 503 in addition to the baling operations noted above; of the 36 tons undisposed of at the end of the year under report 10 tons were sold at reduced rates for Rs. 130 after the close of the year, leaving 26 tons to be written off stock. The whole stock might have sold at reduced rates but for an error on the part of the Civil authorities in holding up the higher rates till too late. A great deal of the time of the staff was taken up in looking after these operations to the deteriment of their proper work, but should the work be continued regularly in future, a special temporary staff should be employed for the purpose.

In Bhandara fodder baling and thatch grass cutting operations were done at the same time, the total cost of which amounted to Rs. 298.

There was no work undertaken in regard to the supply of grass to the Bombay Presidency, sums of Rs. 437 and Rs. 66 being adjusted during the year on account of expenditure and revenue from the previous years' operations.

The outstanding of Rs. 1,582 unadjusted in last year's Annual Report on account of the failure of a contractor to complete his contract has been written off during the current year.

205. Lac.—In Bilaspur some  $4\frac{1}{2}$  tons of lac were collected departmentally with the help of forest villagers and sold, yielding a net profit of Rs. 1,248.

In Bhandara about two tons of lac were collected and sold at a profit of Rs. 617, and in Raipur a very small amount was collected and sold departmentally.

206. The total value of disposals of all kinds of forest produce amounted to Rs. 71,667.

#### BERAR CIRCLE.

207. 187, 158 cubic feet of timber and 2,56,699 cubic feet of fuel were removed by departmental agency in cultural operations and widening lines as against 196,589 cubic feet of timber and 253,742 cubic feet of fuel in 1911-12. 28,811 bamboos as against 16,416 in the previous year.

In all Divisions small collections of grass for the use of touring officers were made departmentally. In addition to these some experiments in baling grass for disposal to agriculturists were made in Yeotmal, Akola, Nimar and Betul. The figures obtained are shewn in the following summary:—

		Quanti gras		Cost of	Quantity o	disposed f	Reveni lize		To be
Division.		Cut.	Baled	opera- tions.	To agricul- turists.	To others.	From agricul- turists.	From others.	written off.
		Tons.	Tons.	Rs.	Tons.	Tons.	Rs.	Rs.	Tons.
Yeotmal		255	34	2,390		239		3,499	16
Akola		67	67	786	45	22	781	433	
Nimar	,,	171	169	2,228	129	40	1 2,579	1,410	2
Betul	•••	240	73	472	.	175	***	458	65
Total		733	343	5,876	174	476	2,360	5,800	83

In no district did there appear any great keenness on the part of agriculturists to obtain baled grass for stall-feeding. In Akola the Divisional Officer reports that he had to persuade various substantial men to take up as much as they did. In Yeotmal the heavy demand in the town precluded all sales to agriculturists In Nimar the agriculturists demand though slightly larger could not be termed urgent as only 128 tons were sold to this class. In Betul there was no such demand owing mainly to the existence of large malguzari forests and the absence of the principle of stall-feeding. If the operations had depended on an agricultural demand they would have resulted in heavy loss. The sales to others just met the expenses of working and the sales to agriculturists gave the profits on the operations. Though the percentage of profit is high the total transaction is but small and it is doubtful whether there would be any profit at all except in seasons of fodder scarcity. Baling operations entail a good deal of dislocation of work.

#### (ii) Purchasers.

#### NORTHERN CIRCLE.

208. Major Produce.—The outturn of timber and fuel removed by purchasers from the forests of the Circle during the year amounted to 2,341,553 and 4,642,931 cubic feet, respectively, as compared with 1,577,897 cubic feet of

timber and 3,889,600 cubic feet of fuel in the preceding year. The revenue derived from this source was Rs. 1,81,921 as against Rs. 1,60,254 of the previous year or 18.69 per cent of the gross revenue of the year. The increase in revenue is due to better demand.

209. Minor Produce.—The total value of the minor produce removed by purchasers including bamboos, grass, grazing and other minor produce was Rs. 6,19,852 against Rs. 4,36,752 of the preceding year.

#### SOUTHERN CIRCLE.

The usual system of auction sales of coupes was continued during the year and is gradually ousting the method of sales by licenses, though it will probably never succeed in altogether superseding it. The well tried stamp system continued to be used for sales by licenses. Paid vendors are being gradually replaced by commission vendors who are paid varying rates of commission on the sales they effect. Paid vendors are only employed where sales are few and far between. A proposal to issue tickets for the lower values of stamps was mooted and is still under the consideration of the Chief Conservator. It is held that a great deal of the vendor's time is spent in issuing licenses for comparatively small sums and licensees are consequently kept waiting.

Leases are usually granted for annual coupes, generally at the beginning of the forest year when auctions are held. There are two long leases in force—one with the Bengal Timber Trading Company in Balaghat and the other with Messrs. Bhickraj Sagarmull Bugla in the South Chanda District, both noted in last year's report. The latter have now in course of erection a large Steam Saw Mill on the outskirts of the town of Chanda and the criticism made in last year's Annual Report certainly appears justifiable; on the other hand, it must be remembered that there is a fairly big cart traffic in the direction of Allapilli from Chanda, so that carting in the reverse direction is cheaper. It is probable that a light bullock tramway alongside the present cart road would be a paying proposition if the permission of the Public Works Department to its construction were obtained. Such a tramway would to a great extent obviate the repairs caused by the cutting up of the road by carts.

The total value of the year's sales amounted to Rs. 3,39,191.

with the exception of bamboos which are sold by the hundred, minor produce of any importance is leased out for one or more years. Myrabolams being a variable crop, the annual lease is a somewhat speculative investment on the part of the purchaser; the Divisional Officer, Balaghat, advocates a five years' lease so that profits and losses in good and bad years will counterbalance. Some trouble is caused by the lessees of trees in Malguzari areas whose employees outbid the Government lessee in purchasing from villagers; during the year under report an important case was brought into Court by the Government lessee bearing on this point against an influential malguzar which is still pending. The total value of the year's sales amounted to Rs. 5,03,663.

#### BERAR CIRCLE.

212. Purchasers removed 822,568 cubic feet of timber and 3,382,984 cubic feet of fuel as against 837,256 cubic feet and 2,617,283 cubic feet in 1911-12.

The revenue from minor produce removed by purchasers, including the value of grazing, amounted to Rs. 7,76,518 as against Rs. 7,25,741 in the previous year. The increase is attributable to the strong demand for fodder grass and grazing.

#### (iii) Rights and Privileges.

#### NORTHERN CIRCLE.

213. The following statement represents the estimated quantity and value of the produce granted free or at privileged rates during the year:—

	Tin	ıber.	Γu	el.	Bam	boos.	Grass and grazing.	Other minor produce.	Total.
	Cít.	Value.	Cft.	Value.	Tons.	Value.	Value.	Value.	Value.
	•	R4.		Rs.		Rs.	Rs.	Rs.	Rs.
Right-holders		'		•••	,.,				•••
Free grantees	24,163	1,242	276,493	3,525	91	509	5,125	899	11,300
Grants at privileged of reduced rates.			346,112	5,408	1,700	5,466	62,500	24,197	97,57 x

Thus the total value of grants at privileged rates amounted to Rs. 97,571 and the loss sustained was approximately Rs. 1,96,800 including Rs. 1,93,100 on account of grazing.

Fuel was granted only in the Seoni Division and other minor produce more or less in all the Divisions.

#### SOUTHERN CIRCLE

214. The following statement is according to Government of India Circular No. 9—113-7, dated the 26th June 1911:—

	Tim	ber.	Fuel	·	Bamboos (1 karks		anu	Other minor produce,	Total
	Cft.	V alue	Cit	Value.	Number.	Value.	Value	Value.	Value,
							Rs.	Rs.	Rs
Right-holders		***	111	271	•••		•••	***	
Free grantees	72,128	3,156	544,927	3,802	705,189	5,643	2,518	2,530	17,649
Grants at reduced rates.	1,470	35	3 101,000	14 430	1,597,994	8,257	1,48,748	575	1,72,045
Total	73 598	3,191	3,645,927	18,232	2 303,183	13,900	1,51,260	3,105	1,89,694

Commutation by which villagers pay lump sums down for the value of forest produce removed during the year was in force in Balaghat, South Chanda and Raipur. This method of recovering revenue is only suitable in B Class forests or where the forests are so extensive as to be out of proportion to the cultivated area. These factors apply in the case of the South Chanda and Balaghat Divisions respectively. Measures are being taken to restrict commutation in Raipur. Commutation is limited as regards major produce to the removal of dry wood and when this does not exist in sufficient quantities to meet the demand of the villagers they are apt to manufacture fuel by the simple process of cutting green trees and letting them dry where they fall. This evasion is difficult to detect and is detrimental to the forest.

The principal privilege is that of grazing at nominal rates which is given to agriculturists on the basis of 4 cattle to each working plough without reference to area. It is not difficult to see how advantage can be taken of this by cattle owners who keep far more cattle than they require for cultivation, and proposals have been made which will prevent the number of working ploughs being exaggerated.

Cattle are rated under three classes (a) Privileged, (b) Ordinary and (c) Commercial. The rates for (a) and (b) are specially laid down for agriculturists and are based on the number of working ploughs in the possession of the

individual ryot. No proportion is laid down between a working plough and the area of land tilled, and the commercial rates exceed the other two, being usually twice the ordinary and eight times the privileged rates. Considerable power is placed in the hands of the patwari who has to write up the passes of cattle owners and agriculturists. The new rules made it inevitable that there should be a general rise all round in the number of cattle grazed at privileged and ordinary rates and it is probable that unless steps are taken to proportion the number of working ploughs to the area tilled the number of cattle so grazed will go on increasing. As a plough can be bought for four rupees, there is a great inducement for an agriculturist to lay in a good number and call them all working ploughs.

#### BERAR CIRCLE.

215. The following statement shows the estimated quantity and value of produce granted tree or at privileged rates during 1912-13:—

	Tim	ber.	Fuel.		ber. Fuel. Bamboor.		Bamboor.		Grass Other and minor grazing. producs.		Total.
	Cft	Value,	Cft.	Value	No	Value	Value,	Value.	Value		
		Rs.		Rs.		Rs.	Rs.	Rs,	Rs.		
Right-holders	74 364	1,262	1,374,019	28,911	263,400	3,980	17,208	4,167	55,528		
Fice grantees	32 678	7,282	320,327	4,476	80,840	589	29,610	1,473	43 430		
Grants at reduced rates.	873	162	370 בקז	1,284	283,010	2317	88,117	642	92,552		
Total	1,01,915	8,706	1,866,716	34 671	632,250	6,886	1,34,965	6,282	1,91,510		
Figures of 1911-12	51,091	5708	1 810,679	36721	945,341	12,007	1,33,452	9,894	1,06,782		

Under the head of right holders are included those to whom concessions are granted under Government orders in the C Class areas in Berar. True right-holders are very few, being only the villagers of Panala, who may graze 250 head in the Marwari Reserve of Yeotmal and the Gosains of Tapowan Khurd in Akola who may graze 125 head.

#### (iv) Free Grants.

#### NORTHERN CIRCLE.

216. Free grants were allowed to forest villagers for home consumption, to other villagers whose houses were destroyed by fire in Mandla and Damoh, and to the District Council, Damoh, for fencing road-side plants. Some free grants were also allowed to the Friends' Mission in Hoshangabad for erection of hurs in settling a village for famine orphans. The details are given in the statement in the preceding section and amounted to Rs. 11,300.

The aggregate value of produce granted free and at concessional rates was Rs. 2,08,100.

#### SOUTHERN CIRCLE.

217. The only non-recurring large grants made during the year were on account of villages buint down. The usual free grants were made to forest villagers, touring officials and employees of forest lessees and the total value is estimated as follows:—

			K5.			Rs.
Timber	***	444	3,156	Grass and grazing	•••	2,518
Fuel	***	***	3,802	Other minor produce	•••	2,530
Bamboos	***	***	5.643	*1*	***	,
			BERAR	CIRCLE.		

218. The value of free grants made amounted to Rs. 43,430, details being shown in the statement in the previous section. They are made to forest villages

ř.

and to inhabitants of revenue villages whose houses have been destroyed by fire. A few retired forest officials are allowed free grazing for their cattle.

# (c) OUTTURN AND SOURCES OF FOREST PRODUCE. NORTHERN CIRCLE.

The total outturn of major produce was 2,725,097 cubic feet timber and 5,458,345 cubic feet fuel against 1,779 374 and 4,492,362 cubic feet, respectively, of the previous year. The total value of the minor produce removed was Rs. 702,753 against Rs. 5,49,576 of the preceding year. This includes Rs. 57 57 for bamboos, Rs. 4,69,707 for grazing, Rs 81,424 for grass and Rs. 93,767 for other minor produce, including harra, lac, mohwa and achar, hides and horns, &c, &c.,

The number of cattle grazed in the reserved forests was 1,273,593 against 1,487,140 in the preceding year.

The total expenditure incurred on the management of State forests was Rs. 2,00,463 as against Rs. 1,83 320.

#### SOUTHERN CIRCLE.

220. The following statement compares the total removals of all kinds of produce from the A Class forest during the year with those of the preceding year:—

		1912-13.	1911-12.
(Government Agency	•••	323,537	336,79 <b>7</b>
Purchasers	***	4,813,099	3,153,598
•••	•••		14,550,781
•••	•••	731,887	14,593,003 743,154
Government Agency	€	1,094	3,095
Purchasers	ر	152,639	81,902
	•••	23,925 1,088,409 cft.	28,671 408 Tons 226,660 Cft.
	Purchasers Government Agency Purchasers	Purchasers  Government Agency Purchasers	Government Agency 323,537  Purchasers 4,813,099 14,450,162 16,251,386 731,887  Government Agency 1,094 Purchasers 152,639 s 23,925

In addition to this it is estimated that the yield from B Class areas yielded 309,584 cubic feet of timber, 1,889,019 cubic feet of fuel. Bamboos 223,235, 10,851 tons of fodder and thatch grass. 4,884 tons of other minor produce and 9,079 cubic feet of mineral products and yielded grazing to 137,657 head of all animals. These estimates are not very reliable however. Of the more valuable products teak 14,420 cubic feet to the value of Rs. 13,912 was extracted from the Allapali forest and sal sleepers measuring 63,418 cubic feet were extracted from the Raigarh forests.

Bamboos.—There was an increase in the quantity of bamboo extracted of 1,658,383 particularly in the Balaghat Division, though it is small compared to what might be removed if the raffic on the railway was not restricted by the shortage of wagons. The Divisional Forest Officer reports that merchants from Berar who pure ase bamboos from the local exporters had to return in despair owing to the want of wagons.

Grasu g.—The slight decrease in the number of animals grazed is due to working plan restrictions and to the lowering of grazing incidence.

The following shows the number of cattle grazed at various rates:-

	Commerc	ial rates	Ordina	ry rates.	Privileg	ed rates.	Fr	ce.	То	tal-
	1912-13.	1911-12.	1912-13.	1911-12.	1912-13.	1911-12	1912-13.	1911-12.	1912-13.	911-12.
Horned cattle Sheep, goats and other animal	113 572	33,854 53,363	211,642 44,157	325,848 60,801	432,643 493	<b>422,4</b> 86 846		7,482 201	765,990 103,554	789,670

There was a falling off in the total number of animals grazed though there was some increase in those grazed at privileged rates. The figures do not however call for any special explanation.

Fodder and Thatch Grass.—The cessation of the Bombay grass famine operations caused a decrease in the amount of fodder extracted departmentally. The increase in the total amount of grass removed has not been clearly explained. It is fairly general though probably more apparent than real. The estimates of outturn are based on receipts and grass birs having fetched better prices it is presumed an equivalent larger amount of grass was removed. It is practically impossible to differentiate between fodder and thatch grass which depends to what use the consumer puts the material removed.

There was an increase in the amount of minerals removed due to the inclusion of road metal removed by the Public Works Department being included in the form during the year for the first time in some Divisions. No explanations have however been given by Divisional Officers.

There was a decrease in the removal of other minor products principally under myrabolams, the year under report not being a good one.

#### BERAR CIRCLE.

221. The following statement shows the outturn of major produce and the value of the outturn of minor produce extracted by all agencies from the different classes of Government forests:—

		Major	produce.		M	inor produc	e.	
Class of forests.		Timber, cubic feet, solid.	Fuel cubic feet solid.	Bamboos.	Fodder.	Grazing.	Rusa oil.	Mis- cellane- ous,
				Rs	Rs.	Rs.	Rs.	Rs.
Class A	•••	552,524	2,395,025	37,775	61,519	1,20,746	13,845	15,408
,, B	***	3,022	31,159	1,441	47,285	5,485	337	1,385
" C	***	62,863	1,309,990	1,167	3,824	2,60,395	73	21,952
Total	•••	б18,409	3,736,174	40,383	1,12,628	3,87,126	1 4,255	38,745
NIMAR AND BETU DIVISIONS.	IL	, i						
Ciass A	•••	498,359	1,597,855	31,243	54,166	1,31,868	19,236	17,463
,, B-I	*14	.,,	•••		•••	274		141
Total	•••	498,359	1 597,855	31,243	54,166	1,32,142	19,236	17,463
Total 1912-13	•••	1,116,768	5,3,14,029	71,626	ı 66,794	5,19 268	33,491	56,208
Total 1911-12	•••	1,084,938	4,566,189	81,098	1,97,034	4 80,981	33,664	52,372
Increase or decrease	.,.	+31,830	+767,840	-9,472	-30,240	+ 33,287	-173	+ 3,836

#### CHAPTER III.

#### FINANCIAL RESULTS (FORM No. 24).

#### NORTHERN CIRCLE.

222. Form No. 24 prepared by the Comptroller shows the details of revenue and expenditure of the year. In the following statement figures of the year are compared with those of the preceding year and average of the five years previous to it:—

Ye	ar.		Receipts,	Charges.	Surplus.	
		$\neg \dagger$	Rs.	Rs.	Rs.	
Average of five year 1910-11.	rs from 1906-07	to	5,63,073	4,60,322	+ 1,02,751	
1911-12	100		7,89,414	5,96,676	+ 1,92,738	
1912-13	•••		9.72,853	6,20,813	+ 3,52,040	
Difference between 19	12-13 and 1911-12	[	+ 1,87,439	+ 24,137	+ 1,59 302	

The above will show that there was an increase in the receipts, expenditure and surplus of the year as compared with the corresponding figures of the previous year. The surplus of revenue over expenditure is shared by all the Divisions of the Circle.

The increase of Rs. 1,83,439 in the receipts for the year over that of the preceding year was chiefly due to the introduction of the new grazing rules, and in some measure to better prices obtained from sales of coupes to lessees, and to outstandings from last year realized during the year.

Of the gross revenue Rs. 2,03,177 were realized from the sale of major produce, vis, timper and fuel removed by departnental agency and by consumers and purchasers. It shows an increase of Rs. 22,277 over the corresponding figure for the preceding year. The revenue from timber represents 15 per cent of the gross revenue and that from fuel 6. Of this 21 per cent 2 per cent represents the major produce removed departmentally and 19 per cent that removed by consumers and purchasers.

The total revenue from the sale of minor produce which includes bamboos, grass, grazing and other minor produce was Rs. 7.25,783 or 75 per cent of the gross revenue and shows an increase of Rs. 1,52,617 over the corresponding figure for the previous year.

Miscellaneous revenue amounted to Rs. 43,897 or 4 per cent of the gross revenue and shows an increase of Rs. 8,545 over the previous year's figure.

224. The total expenditure of the year amounts to Rs 6,20,813 or Rs. 24,137 more than that incurred in the preceding year. The expenditure of the year represents 64 per cent of the gross revenue, while the proportion of net to gross revenue is 36 per cent.

Forty one per cent of the total expenditure was incurred on A—Conservancy and works and 59 per cent on B—Establishment, the total expenditure under these heads being Rs 2,55,164 and Rs. 3,65,649 respectively.

Of the total increase of expenditure Rs. 2,292 was under A—Conservancy and works and Rs. 21,845 under B—Establishment. In the former the increase was principally due to departmental collection of Harra in Mandla and departmental operations of timber and fuel in Damoh. Also more commission having been required to be paid to license vendors for the increased revenue from grazin; greater expenditure on reads, fire protection and other works; Rs. 20 000 odd having been paid as the purchase money, etc., of the Indpura and Singora Malguzari in the Hoshangabad Division. Moreover the expenditure during the year includes nearly Rs 45,000 on account of grass supplied to the Bombay Presidency mostly during the preceding year and but for this and for the purchase of the malguzari villages referred to above the expenditure of the year would certainly have been much less instead of more than that of the preceding year

Under B—Establishment the increase is due principally to the addition of some Imp-rial and Provincial Officers to the strength of the Circle; to the increased rate of pay for Forest Guards and travelling allowance to Rangers and Range Assistants and to the increase in establishment and contingencies consequent on the splitting up of two ranges in the old Mandla Division into four.

- 225. The total amount of revenue outstanding fell from Rs. 55,884 to Rs. 54,322.
- disbursers amounted to Rs 24,970 against Rs 19,597 of the previous year. The difference is ascribed to the non recovery of taccavi advances from forest villagers in some Divisions due to failure of crops and other reasons, to the payment of remuneration to patwaris and revenue inspectors in the Mandla Livision not having been adjusted and to the advances in here collection in the same Division not having been adjusted by the close of the year
- 227. The estimated value of stock at the close of the year was Rs 1,35,526 against Rs. 1,78 835 cf the preceding year.

#### SOUTHERN CIRCLE.

228. The following statement compares the revenue and expenditure of the year with those of the previous year and with the average of the preceding five years.

	Year. Receipts.				Charges.	Surplus.
1912 13		***	1	9 53·4 <b>1</b> 3	6,33,501	3,19,912
1911-12	144	***	•	7 60,145	6,62,763	96,382
Average	1906•07 to	1910-11	•••	6,89,509	6,02,291	87,218

There was an increase in revenue of ks. 1,93,268, a decrease in expenditure of Rs. 30,262 and an increase in su plus of Rs 2,53530 as compared with the figures of the previous year but, if the receipts and charges on account of Bombay grass operations in 1911-12 are omitted both revenue and expenditure as well as surplus show an increase of Rs 2,41,398, Rs. 8,571 and 2,32,827 respectively over the previous year.

229. The increase in revenue of the year over that of the preceding year is common to all Divisions except North (handa which shows a slight decrease due to the inclusion in 191112 of a sum of Rs 29949 on account of grass operations and also to (1) better prices obtained from sale of coupes (2) a higher revenue derived from grazing on account of the introduction of new grazing rules and (3) larger sales of bamboos in Bhandara and Bilaspur. In South Chanda Rs 55,450 was paid by the Alapalli lessee as a first instalment and in Balaghat Rs 19,821 by the Bergal Timber Tiading Company against a sum of Rs 8,800 only in the previous year. The revenue from minor produce extracted by departmental agency shows a very large decrease owing to the discontinuation of grass operations but that by purchasers shows an increase of some Rs 6,000 on account of better prices obtained for grass and other produce principally in Nagpur-Wardha. This was counterbalanced by a decrease of Rs 10,033 in Balaghat on account of hurra. Of the total revenue 40 per cent was from major produce, 56 per cent from minor produce and 4 per cent from other sources.

Bilaspur shows a surplus for the first time since 1896-97, but the increase in revenue occurred under all heads which was mainly due to extension of roads and to the working of the forests up to their full normal yield.

230. The charges under A and B show a decrease of Rs. 30,262. The expenditure under A amounted to Rs. 2,57,876 or 41 per cent of the total and less than that of the previous year by Rs. 29,297 due chiefly to the inclusion in 1911-12 of the sum of Rs. 38,833 on account of grass operations. Of this 14 per cent was spent on roads, buildings and tanks against 11 per cent in 1911-12.

Expenditure under B amounted to Rs. 3,75,625 or 59 per cent of the total and was less than that of the previous year by Rs. 965.

- 231 The total amount of revenue outstanding was Rs. 17,605 against Rs 8,128 in the previous year.
- The outstandings due to the Department from contractors and disbursers amounted to Rs. 45,213 and the amount due by the Department Rs. 3,369 against Rs 55 606 and Rs. 3,048 respectively in the previous year.
- 233 The estimated value of timber and other produce in depôts fell from Rs 52085 to Rs 14,896 and of live and dead stock from Rs. 3,25,107 to Rs. 3,21,78.
- 234. The money yield per acre of Government forests during the year has been:—

Balaghat Re 0-3-11, Bhandara Re. 0-5-4, Bilaspur Re 0-2-7, North Chanda Re 0-3 7, South Chanda Re 0-4-5, Nagpur-Wardha Re 0-6-1 and Raipur Re 0-2 1, respectively.

235 The decreased outturn noted in the last chapter due to want of export facilities has again adversely affected the revenue trom Balaghat, North Chanda and Bhandara Divisions, respective y

#### BERAR CIRCLE

236 The following statement compares the revenue and expenditure of the year with those of 1911-1912 and the average of the preceding five years:—

Forest Year.			Revenue.	Expenditure.	Surplus	
1912-1913	424		11,05,622	6, 28,417	5 67 205	
1911-1912	•	[	12,66 629	5,94, 114	5 42,315	
Average of years 1	90 <b>6-</b> 1907 to 1910-1911		9 30,461	4,96,591	4 33,870	

There was thus an increase over the previous year in revenue of Rs. 78,993, in expenditure of Rs. 34,103 and in surplus of Rs 44,890.

The percentage of surplus to gross revenue rose very slightly, i. e, from 46 7 to 47 4.

The operations for the supply of grass to the Bombay Presidency undertaken during the preceding year were extended over a portion of the year under report, and if the revenue (Rs 48,636) and expenditure (Rs 41,060) on account of these transactions be omitted from both sides, the total revenue from normal sources was Rs. 11,46 986, the expenditure Rs. 5,87,357 and the surplus Rs. 5,59,629; the percentage of surplus to gross revenue being 48.8.

Melghat where the restrictions introduced on the exploitation by purchasers in the new reserves caused a considerable falling off under most heads of revenue. The general increase, excluding the Bombay grass supply, was mainly due to that under the head of fodder grass and grazing consequent on the general scarcity of fodder due to short rainfall which caused a demand on the forests even in excess of the demand in the previous year. There was a decrease under timber removed owing to the drop in Melghat owing to the restrictions in the new reserves, while under fuel there was a substantial rise principally in Amraoti, Akola and Yeotmal. Under bamboos there was a considerable drop owing mainly to the difficulty experienced by bamboo exporters in Betul in getting wagons on the railway, while under miscellaneous minor produce the increase is due principally to Nimar and Betul where the competition for Rusa grass leases was strong.

- 237. The expenditure under Conservancy and works was Rs. 2,77,075 or 44 per cent of the total, an increase of Rs. 18,652 over that of the previous year. The principal increase was due to the operations for the supply of grass to Bombay Presidency (Rs. 5,599), remuneration for the collection of the increased revenue (Rs 4,312), communications, buildings and tanks and wells (Rs. 12,826).
- 238. Expenditure under Establishment was Rs. 3,51,342 or 56 per cent of the total an increase of Rs. 15,451 over that of the previous year. The increase is partly due to the promotions and increments obtained in both the superior and subordinate services and partly to the extension of travelling allowance in the subordinate staff
- 239 The outstandings on account of revenue at the end of the year amounted to Rs 18,537, an increase of Rs. 1,099, as compared with 1911-1912, due to outstandings on leases for minor produce in Malghat.
- 240. The outstandings due by contractors and disbursers stood at Rs 41 102, a decrease of Rs 20 575 over the last year's figure which is due to the adjustment of advances made to the contractors who supplied grass to Bombay.
- 241 The estima ed value of live and dead stock at the close of the year was Rs 2, \$\pm\$509, sho vin \( \text{an increase of Rs. 10,282 in favour of the year under report owing to the value of new buildings and furniture purchased

The following statement shows the percentages on the total revenue of the rivenue obtain d from various sources and of the expenditure on various works of improvement and on establishments:—

			Am unt	Percentages or total revenue.	
			1 8		
Total revenue	***	•	11 45,986		
Total expenditure to revenue	***		5,87,357	51 2	
Expenditure A to total revenue	***	•••]	2,36,015	20 5	
Do. B do	***	- }	3,51,342	306	
Surplus to total revenue	6.00	)	5,59,629	488	
Value of free grants.	•••		1,91,510	167	
Percentages of total revenue obtained from	**************************************	1			
(1) Major produce (timber and fuel)	•••	•••	3,04,737	266.	
(2) Bamboos		•	65,431	5'7	
(3) Grass and grazing	***	·· {	6,28,565	548	
(4) Other minor produce	***	•••	98,220	8.8	
(5) Miscellaneous	***		50,033	4'4	
Percentages of total revenue spent on-					
(1) Roads and bridges A VII (a)	489		31,924	2.7	
(2) Buildings—A-VII (b)	•••		31 428	27	
(3) Tanks and wells-A-VII (c)	***	•••	14,624	1.3	
(4) Fire protection—A-VIII (f,	416		33,691	2.8	
(5) Other works-Cutting back opera	tions A-VIII (4)		16,958	1'4	
(6) Pay of all establishment	•••	•	2,86,675	24'9	
(a) Conservator	3+4		18,366	r 6	
(b) Superior Officers	***		\$1,173	7.07	
(c) Subordinate establishment	***	}	1,35,547	11'8	
(d) Office establishment	**		49 740	4'3	

#### CHAPTER IV.

#### ADMINISTRATION.

#### NORTHERN CIRCLE

243. Charge of the Circle—The charge of the Circle was held by Mr. M Hill, till 2nd May 1913, and from 3rd May 1913 by the writer of this

report.

244 Changes in the Constitution of Divisions—Oning to the unwieldy size of the Mandla Division on the one hand and the very small size of the Naisinghpur Division on the other, the latter Division has been amalgamated with the Jubbulpore Division, under the name of the Jubbulpore-Narsinghpur Division. The Dhannahi Range which actually forms part of the Mandla Ci il District but was hitherto included in the Jultulpore Division was amalgamated with the Mandla Di ision which was then divided into two Divisions, 'orth and South Mandla These changes in the constitution of the three Divisions were effected on 1st April 1913

Two ranges of the Mandla Division were also broken up into four charges, Dindori into I indori and Karanjia, and Shahpura into Shahpura and Saristal, with effect from the same date.

- 245 In the present report, however, the figures for the Mandla Division as it previously existed have be n shown against Mandla and those for the Jubbulpore Division as it existed before, together with those relating to Narsinghpur, have been shown against Jubbulpore-Varsinghpur, to avoid complications
- 246. Changes in Gazettea Officers—The changes which occurred during the year among gazetted officers are as follows:—
- Imperial Oricers Mr. R. M. Williamson, Deputy Conservator of Forests, was transferred as Officiating Conservator of Forests to Assam and was relieved of the charge of the Poshangabad Division on 3rd May 1913 by Mr. L. Mason, Assistant Conservator of Forests who was transferred from the Berar Circle, having been formerly attached to this Division. Mr. S. L. Kenny, Deputy Conservator of 'orests, was in charge of the Mandla Division, as it originally existen, up to 31st March 1913, and of the South Mandla Division thereafter
- Mr D. O Witt, Deputy Conservator of Forests, was on privilege leave for 3 months from 2nd April 1913 on which date he was relieved of the charge of the Saugor Division by Mr. C. M. Harlow, Assistan Conservator of Forests, who was transferred from the Hoshan abad Division but was previously attached to the Saugor Division.
- Mr. R. T. Jenkin, Assistant Conservator of Forests, joined the Imperial Forest Service on 24th December 1312, reported himself at Saugor on 29th December 1312 and was attached to the Hoshangabad Division from 26th March 1313 to the end of the year.
- Mr. H. C. B. Jollye, Assistant Conservator of Forests, joined the Imperial Forest Service on 5th December 1912, repo ted himself at Jubbulpore on 9th December 1912 and remained at ached to Mand'a from 22nd December 1912 to the close of the year.
- 247. Provincial.—Rao Bahadur S. G. Paranjpe, Extra Deputy Conservator of Forests, was in charge of the Jubbulpore Division up to 31st March 1913 and thereafter of the Jubbulpore-Narsinghpur Division.

The three months' privilege leave granted from 1st May 1912 to Mr. W. G. J. Peake, Extra Assistant Conservator of Forests, in charge of the Damoh Division, covered the month of July 1912 during which the charge of the Division was held by Mr. V. C. Bhagwat, Extra-Assistant Conservator of Forests, who was then transferred to the Mandla Division to which he remained attached up to 27th June 1913, after which he was transferred to the Yeotmal Division in the Berar Circle.

- Mr. Faiz Bakhsh, Extra-Assistant Conservator of Forests, on transfer from the Southern Circle was attached to the Chhindwara Division from 14th January 1913 onwards.
- Mr. P. Shankarnath, Extra-Assistant Conservator of Forests, was in charge of the Narsinghpur Division up to 31st March 1913, and of the North-Mandia Division thereafter.
- Mr. C. V. Sarwate, Extra-Assistant Conservator of Forests, on transfer from the Chhindwara Division was attached to the Saugor Division from 15th October 1912 onwards
- Mr. Nazir Abbas, Probationery Extra-Assistant Conservator of Forests, was appointed to the post substantively on 18th September 1912. He was attached to the Hoshangabad Division, and on expiry of his two months' privilege leave on 23rd November 1912 his services were placed at the disposal of the Bhopal State.
- Mr Shyam Sunder Lal, Probationery Extra-Assistant Conservator of Forests, and appointed substantively to the post on 18th September 1912, continued on foreign service in the Indore State.
- 248. Ringers' Course—Of the two students who were deputed of training for the Rangers' Course for 1911-13 at the Dohra Dun Imperial Forest College, Deputy Ranger Lakshman Rao, of the Hoshangabad Division, who in 1909 had passed, by the Higher Standard, the Balaghat Forest School Examination passed with honours, and stood first in the order of merit and obtained no less than five medals. The second student passed by the Lower Standard.

Two stipendiary students were selected for that course for 1913--15. One student is now under training for the course for 1912-14.

249. Balaghat School Training.—Of the six students (five subordinates and one private stipendiary student) selected for training at the Balaghat Vernacular Forest School for the course for 1912-13, five passed by the Higher and one by the Lower standard and one, a subordinate, lailed.

Two subordinates, one from Jubbulpore and the other from Chhindwara, had to come back from the school owing to their inability to follow the course.

Three subordinates and one private stipendiary students have been deputed for training for the current session.

- 250. Office Inspection—Six Divisional Offices were inspected during the year by Mr. Hill, vis., all except the Sconi and Chhindwara Divisions.
- 251. Forest Inspection.—Inspection Notes showing the results of inspection of forests in four Divisions, viz., Jubbulpore, Danoh, Saugor and Hoshangabad, by Mr. Ilill were submitted to the Chief Conservator of Forests.
- 252. Punishments.—The number of subordinates who were punished during the year is as follows:—

One Forester on being prosecuted was imprisoned, 39 Forest Guards and 1 orderly were dismissed; 1 Deputy Ranger, 1 Forester, 16 Forest Guards, 1 Orderly and 3 Range Mohairirs were degraded; 2 Foresters, 79 Forest Guards, 1 Mahawat, 1 License Vendor, 1 Grass Moharrir and 6 Orderlies were fined; and 2 Rangers, 1 Forester, 12 Forest Guards and 2 Clerks were suspended. The total number of subordinates punished was 170 or 15'40 per cent against 156 or 14'88 per cent during the previous year. The percentage of punishment in the Chindwara Division was extremely high.

253. Subordinate Service.—The Divisional Forest Officers on the whole speak well of the work of the subordinate establishment. The names of the following Subordinates have been especially noted for good work. Ranger Govind Rao Sapre, Deputy Ranger Wahid Khan and Ram Ratan of Jubbulpore, Rangers Mohamad Hanif and Bhote and Deputy Ranger Ahmad Karim of Hoshangabad and Ranger S. J. Chati of Chhindwara.

254. Office Establishment.—As regards the office establishment it is found practically impossible to attract good men for a pay of Rs. 20 and more than half the total number of posts are of Rs. 20 and under. The proportion of low-paid posts to higher paid post seems to call for some alteration.

The Divisional Forest Officers, Jubbulpore and Chlindwara, make special reference to the good work of their Head Clerks

As regards the Conservator's Office the permanent Superintendent, who was on combined heave, refired on it valid pension on 19th May 1913. The work of the office, as a whole was good and the Officiating Superintendent (now confirmed) Ram Charan I al, and of the Accountant (now Assistant Superintendent) P. Mukhopadhya, and Clerks, Mohamu ad Mohfazul Karim and Lalji Sahadeserve special mention.

- 255. Health -- The year on the whole was a healthy one.
- 256. Relation between Forest and Revenue Departments—The relations between the Forest and Revenue Departments were throughout satisfactory.

#### SOUTHERN CIRCLE.

- 257. The charge of the Circle was held by Mr. H. H. Haines, Conservator of Forests, upto 10th April 1913 when he proceeded on combined leave. He was relieved by the writer of the report who held charge of the Circle upto the close of the year.
- 258. The following changes occurred during the year among gazetted officers----.
- Mr. Townshend, Deputy Conscivator of Forests, was transferred from the Berar Circle and was attached to the Raipur Division as Working-Plan. Officer trom 24th January 1913.
- Mr. Bell, Deputy Conservator of Poiests was transferred from the Berer Circle and was attached to the North Chanda Division as Working-Plans Officer upto 1st March 1913 when he assumed charge of the Division from Mr. Langhome, Extra-Assistant Conservator of Forests, who was transferred to the Berer Circle.
- Mr. Benskin, Assistant Conservator of Forests, was attached to the Direction Division from 21st September 1912 to 4th December 1912 when his services were placed at the disposal of the President, Forest Research Institute at Dehra Dun.
- Nr. Faiz Bakhsh, Extra-Assistant Conservator of Forcets, proceeded on three months' leave from the 2nd October 1912 and on expiry of his leave was transferred to the Northern Circle.
- Mr. Cole, Extra-Assistant Conservator of Forests, proceeded on three months' leave from 17th March 1013, on expity of which he was transferred to the Berar Circle. He was relieved by Mr. Narsingh Rao, Extra-Assistant Conservator of Forests, who was transferred from the Berar Circle and who held charge of the Division till the end of the year.
- Mr. Anthony, Extra-Assistant Conservator of Forests, was transferred from the Berar Circle and attached to North Clanda I vivision from 231d June 1913.
- Mr. Laiq Singh, Extra-Assistant Conservator of Forests, proceeded on three months' privilege leave from 7th March 1913, after expiry of which he was transferred to the Berar Circle.
- Mr. McDonald, probationary Extra-Assistant Conserve tor of Forests, was transferred from the Berar Circle and posted to Chanda Division from 18th December 1912.

Two stipendiary students were sent to the Imperial Forest College, Dehra Dun, for the Rangers' Course and two stipendiary students returned from the Dehra Dun College with Higher Standard Certificates.

In the Raipur Division one Ranger was placed under suspension pending his prosecution which was undecided at the close of the year.

- The pay of the elerical establishment, especially in the lower grades, is too low to obtain men with sufficiently good educational qualifications. Two men were sent up to the Remington Type writing Class and Conservator notices a tendency for clerks when they have leant their work in the Forest Department to leave for better paid appointments in other offices. It is difficult to refuse applications from elerts to leave to improve their prespects and the only way of retaining them is to offer a somewhat higher initial salary.
- 260 Two Foresters, 24 Forest Guards, 2 Clerks, a Mahout and a Khalasi were dismissed; 4 Foresters, 17 Forest Cuards and 2 Dange Clerks were reduced 3 Forest Cuards and a Range Clerk were suspended and a Forest is anger, 5 Foresters and 68 Forest Guards were fined. The proportion of publishments compared with the total strength was 143 per cent.

Thirteen Forest Guards, I Orderly and I Range Clerk on the permanent establishment died during the year.

- 261. Inspections.—The Inspector-General of Forests inspected the forests of the South Chanda Division with the Chief Conservator of Forests who also toured through the North Chanda Division. The Conservator of Forests accompanied the Inspector-General of Forests for part of his tour and also toured in the forests of the Bhandara and Nagpur-Wardha Divisions.
- 262. The relations between the Forest and Civil Departments have been cordial throughout the year except perhaps in the Balighat Dietrict. The thanks of the Conservator are due to Mr. Clarke, the present Deputy Commissioner, who has satisfactorily disposed of several questions in dispute.
- were examined by a Board in February 1913 consisting of the Direct of and three Deputy Conservators. Thirteen students passed by the Higher Standard, thirteen by the Lower Standard and three failed to get a certificate of a y kind; the State students showing up badly as only two out of nine succeeded in reaching the Higher Standard and two failed to get certificates. Thirty students were admitted during the year, of which to were from Native States. One State and three Government students were sent back as they could not follow the course and one student absconded. The Director complains that the present students are ill educated which makes it difficult for them to follow the course. The best officers have already been through the School course and it is getting difficult now to pick men from the present subordinate staff who are up to a sufficiently high standard of intelligence and education to benefit by the tuition. We shall have to wait till some of the older Deputy Rangers and Forestors retire when their places can be filled by younger and better educated men who will in the ordinary way go through the course. The Instructor Mr. Avasia, and Assistant Instructor, Ranger Sathe, have as usual done very good work.

#### BERAR CIRCLE.

- 264. The charge of the Circle was held throughout the year by the writer of this report.
- 265. Messrs. Chatterji and Inamati Shamarao held charge of Amraoti and Akola Divisions throughout the year.

In Melghat Mr Bartlett held charge from 1st July to 10th August 1012 when he went on six months leave. Mr. Danbar-Brander held charge of the Division till the end of the year.

In Buldana Mr. Pandurang Narayan was in charge from 1st July to 2nd August 1912. He was relieved by Mr. Townshend who held charge of the Division till 20th January 1913 when he was transferred to the Southern Cucle and Mr. Parsons who relieved him held charge till the end of the year.

In Yeotmal the Division was held by Mr. Malcolm till 20th March 1913, when he undertook the preparation of the Working-Plan of the Division, being relieved by Mr. Thompson who held charge of the Division till the end of the year.

In Nimar Mr. Martin was in charge till 1st August 1912, when he proceeded on 1 year and 23 months combined leave from 21d August 1912 and Mr Mason held charge of the Division upto 19th February 1913 when he was relieved by Mr. Bartlett who remained in charge till the end of the year.

In Betul Mr. Thompson held charge of the Division till 11th September 1912, when he proceeded on 3 months, privilege leave, handing over charge of the Division to Mr. Pandurang Narayan. On return from leave Mr. Thompson again held charge of the Division upto 11th March 1913 when he was transferred to Yeotmal Division, handing over charge to Mr. Langhorne who remained in charge upto 21st June 1913. On his transfer to foreign service Mr. Cole held the charge till 30th June 1913.

Mr. Donald was Working-Plans Officer of the Melghat Division till 28th February 1913, when he was transferred to the Fotest College at Dehra Dun. Mr. Masom was placed in charge of the work up to 25th April 1913 when he was transferred to the Hoshangabad Division.

Mr. Narsingrao who was attached to Yeotmal Division was transferred to Bhandara Division in March and Mr. Mac Donald who was attached as a probationer to the same Division was transferred to Chanda Division in December last.

Messrs. Laiq Singh and Anthony received and handed over the duties of attached officer in Nimar Division on the 16th June 1913 on the latter officer's transfer to Chanda Division.

266. All Divisional Officers worked well during the year. Mr. Bartlett in Nimar had an attack of sun-fever at the beginning of the hot weather and could do little or no touring afterwards which was unfortunate in a large Division as Nimar. Mr. Dunbar-Brander very soon obtained a grasp of the somewhat difficult conditions through which the Melghat is passing.

267. Three stipendiary students returned from Dehra Dun College with Higher Standard Certificates. Of these N. Iyangar passed with honours and stood third on the list.

Two Deputy Rangers were deputed to Dehra Dun College for the Rangers' Course.

268. Seven Foresters were deputed to Balaghat Forest School. Of the seven students deputed last year all obtained certificates, three by the Higher Standard.

269. The following statement shows the number and nature of punishments awarded during the year:—

Ran	k.		Dis- missed.	Sus- pended.	Re- duced.	Fined.	Prose- cuted.	Services dispensed with.	Total.	Total strength of establish- ment.
Rangers Deputy Rangers Foresters Forert Guards Watchers Pass Vendors Naka Karkuns Clerks Orderlies Mahouts Jamadars	Total	*** *** *** *** *** ***	 28 3 3 3  40	: : : a : : a : : : : .	7     	 15 70 14 4 1  6	   	12 4 4 4 4 20	1 2 2 16 120 18 11 6 6 1 133 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2,162

Thus a percentage of 16:4 of the total strength of the establishment was punished during the year.

Two Rangers, 3 Deputy Rangers, 3 Guards and one Clerk retired during the year.

One Deputy Ranger, 22 Guards, 8 Watchers. 4 Pass Issuers, 3 Clerks and 3 Orderlies resigned the service during the year.

- 270. On the whole the subordinate establishment worked fairly well during the year, but there is great room for improvement especially among the old hands many of whom are nonentities even if not actively mischievous. It will take some years to eliminate these men as they are generally too shrewd to commit any tangible offence. The remarks made in paragraph 241 of the Report for 1911-1912 may be repeated again this year. The pay given in the lower grades is barely a living wage and does not attract a suitable class of men. Forest Guards generally have a very brief service and the number who serve long enough to earn their retiring gratuity is insignificant.
- 271. The clerical establishment with a few exceptions worked well. There were difficulties in Amraoti which were improved by a change of Head Clerks, while in Buldana even more difficulty is experienced in getting clerks than in other Divisions. The pay and prospects of the lower grades in this service require improvement everywhere.
- 272. Thirteen Guards died during the year. The season generally was a healthy one due doubtless to its dryness. The Divisional Officer, Melghat, attributes the good health of his establishment very largely to the distribution of an adequate supply of quinine tabloids.
- 273. The Conservator inspected all the Divisional Offices except Amraoti and Yeotmal.
- 274. All Divisional Forest Officers report that they have inspected all Range Offices in their Divisions except the Divisional Forest Officer, Yeotmal, who has given no information on this point.
- 275. The relations between the Revenue and Forest officials everywhere were good, except in the Melghat where some friction occurred with the subordinate Revenue officials. A position of some difficulty was created owing to the antagonism of the Tahsildar, but since the close of the year the official at fault has been transferred by the Commissioner, and it is hoped that the difficulties in the settlement of the Melghat will not occur again with an officer of greater experience and tact.

#### CHAPTER V.

#### GENERAL.

#### NORTHERN CIRCLE,

#### Forest Village.

276. Two new forest villages were sanctioned during the year in Mandla, one of these being for settlement by Baigas from the Baiga Chak, as they wish to abandon their Bewars and take to regular cultivation.

One forest village was started in Saugor, three in Chhindwara and three in Hoshangabad. In Hoshangabad the villages have a general dislike for road work, more especially the Korku, and the Divisional Forest Officer does not recommend the further steady employment of the forest villagers on this work. The kodon and kutki crops, on which the Korku so largely depend, was a total failure in the forest villages in that Division and this necessitated the grant of further taccavi advances and the postponement of the recovery of previous advances.

277. Mulguzari Forests,—In Mandla three malguzari villages were notified for protection under the malguzari rules. In Chhindwara 11 such village forests were brought under special protection under the orders of the Deputy Commissioner.

- 278. Patch Cultivation.—In Mandla one village was deserted during the year. In Chhindwara arrangements have been made for the relinquishment of patch cultivation on the death of the present occupiers and 30 plots, aggregating to 403 acres in that Division, have been relinquished during the year.
- 279. Shooting Permits.—407 shooting permits were issued by Divisional Forest Officers during the year against 427 in the previous year.
- In Seoni 12 cases of poaching occurred during the year. Out of four cases prosecuted, convictions were obtained in two. Six cases were compounded and two were handed over to the Police.
- 280. Elephants.—There were six elephants at the close of the year, one for the Conservator and one for each of the five Forest Divisional Officers of Mandla, Jubbulpore, Saugor, Hoshangabad and Chhindwara.
- 281. Arboriculture.—Only four Divisional Forest Officers had opportunities of making observations on arboriculture. The Divisional Forest Officers Jubbulpore, Damoh and Saugor, are on the whole satisfied with the work. The Divisional Forest Officer, Sconi, observed that a large number of road-side avenue trees, chiefly Albizzia (Siris) and Pipal along the Jubbulpore-Nagpur road were badly infected with lac which is causing much damage to and disfigurement of the trees and recommends the sale of lac on road-side avenue trees to lac contractors being discouraged.
- 282. Atmospheric Soil Moisture.—As regards experiments in connection with the relation between forests and the retention of atmospheric and soil moisture, the subject is still under consideration.

#### SOUTHERN CIRCLE.

283. Forest Villages.—In Balaghat two ryotwari villages were taken over by the Department, the total amount of compensation paid being Rs. 5,827.

In Bilaspur two new villages were established and one of the existing villages abandoned. In South Chanda six villages were acquired and three abandoned, and in Raipur two malguzari villages were acquired by exchange. There were 281 forest villages at the close of the year.

284. Taccavi.—At the beginning of the year there were outstandings amounting to Rs. 19,550; during the year Rs. 9,356 was advanced as loans to forest villagers and Rs. 11,530 were recovered. Sums amounting to Rs. 97 were written off as irrecoverable and there was a balance at the close of the year of Rs. 17,279.

These taccavi advances are necessary to prevent forest villages being abandoned. An application was made during the year to write off a sum of Rs. 3,160 outstanding in the Lormi Range of the Bilaspur Division against certain villagers who formerly practising shifting cultivation were induced to settle down permanently. Sanction was received to write this off after the close of the year. The amount may be regarded as a set-off against successful fire protection in the Lormi Range which has been of great benefit to the forests. There is a great tendency for these tribes to stray off to Native States to practise shifting cultivation which has also been in vogue for many years in zamindaris adjoining Government forests but is gradually being suppressed.

- 285. Eight prospecting licenses and three mining leases were issued during the year, besides a mining lease for coal over 240 acres of Government forests in the Haveli Range of the North Chanda Division.
- 286. One hundred and seventeen shooting permits were issued during the year and the following animals recorded as killed by permit holders, etc.

Tigers 41 Bears Sambhar 29 48 Panthers ... 38 Bison Chital 3 Wild dogs Barasingha 50 Nilgai and other deer. 72 12

Six wild dog's pups were caught and presented to the Maharaj Bagh in Nagpur where they died.

There are many complaints of lawful poaching of game particularly by malguzars who sit up in the hot weather over water to shoot any wild animal that comes down to drink. As there are no crops on the ground at this time of year gun licenses might be given on condition that gams were to be deposited in the kutchery during April, May and June when owing to the want of natural water pools wild animals run a great risk of being exterminated. This sitting up over water usually takes place outside the forest where the Forest Act does not apply. It is hoped that the orders recently issued for a close time for game will have some effect in preventing this indiscriminate poaching.

The Raipur Forest Officer reports that the Kamars create great havoc among game with their bows and arrows sitting up over water in the reserved forests in the same way in the hot weather; numerous carcases of animals have been discovered with arrows sticking in them including two bison. This accounts for the few game to be found in the forests of this Division.

Bison and other large game suffered severely from rinderpest in the South Chanda Division and though this complaint attacked cattle in North Chanda, it does not appears to have spread to the wild animals.

- 287. The reboisement of Telankheri (Seminary) Hill continued under the Divisional Forest Officer, Nagpur-Wardha, who however can only give his personal attention to it in the rainy season. The method of sowing seeds on mounds of earth appears to be the one best suited to soil and climatic conditions, the former tending to get water logged in the rainy season. On very rocky ground these mounds were erected over pits varying from two to three feet deep. The common nim tree appears to be the hardiest of any in Nagpur and seedlings of this species stand transplanting when young. Anjan (Hardwickia) also does well from seed but owing to the extraordinarily rapid growth of its tap root in the first month will not bear transplanting.
- 288. Little is reported regarding roadside arboriculture. The Divisional Forest Officer, Raipur, states that delay in putting up gabious after planting, frequently leads to the plants being browsed down, after which their protection from cattle becomes a farce.
- 289. Three civil cases were brought against the Department by a purchaser who claimed that he had been cheated in the sales of coupe and grass bits which were sold to him by auction. These cases were pending at the close of the year but have since been dismissed by the Court. The thanks of the writer are due to the Standing Counsel, Mr. G. P. Dick for his able defence of the interests of Government.

#### BERAR CIRCLE.

villages in Kinwat is in progress, there were 324 villages established as compared with 315 in the previous year. In Nimar six old sites were re-occupied and apparently the staff are learning the necessity of treating the people more reasonably than they used to do. In Melghat 12 new sites were selected as suited for settlement when occupants are available. At present a very large part of the population of the Melghat Taluq are in a state of uncertainty as to their real wishes and intended movements. Some have migrated from the reserves into the 1 yotwari, and others vice versa. Some have left the district altogether and of these some have returned The Korku has no attachment to the land when it consists of red soil and migrates on the whim of the moment or for some trivial complaint. He requires a little black soil, freedom to trade in forest produce and tactful handling when his habits become more settled. As the Department depends entirely on the Korkus for the exploitation of all forest produce in the Melghat, the early completion of the Working-Plan to lessen the restrictions necessarily imposed in the new reserves and to regularize their working is very necessary.

- The rates for forest produce for household requirements for consumption in the ryotwari area of the Melghat were revised in consultation with the Revenue Authorities, very low rates being fixed to carry out the orders of Government that the management of the newly constituted reserves should cause as little inconvenience as possible to the people.
- 292. It Betul two malguzari villages, Tirmahu and Sonaghati, were declared as requiring special protection and one village, Pandol, was released from protection.
- 293. Two-hundred and twenty four shooting permits were issued during the year against 201 in the previous year. The reports of animals shot are not complete, but 3 bison, 49 sambar, 16 chital and 191 other deer are reported to lave been shot.

In Akola 62 special permits were issued to give effect to the Government orders for the destruction of pig and nileai, 111 pig and 99 nilgai being killed in that district. In all 182 nileai and 447 pig are reported to have been killed.

In the Amraoti Division a very large number of licenses issued in the neighbour-hood of Amraoti are believed to be used for the purposes of trade in meat and hides of game. The number must be restricted in future to check abuse and to prevent the total extinction of all game in the neighbourhood of Amraoti where shooting within easy reach is a valued privilege of many subordinate officials.

- 294. The Agricultural Department continued the operations for catching the wild cattle in Bhongaon, but only 4 head were captured. A few doe chital were shot in the same reserve, but it will be necessary to enlist the assistance of Phansi Pardis if any real impression is to be made on the numbers of these animals.
- 295. Elephants —All the elephants in the Circle are in good condition. The Betul Divisional elephant is unreliable and sanction was received at the end of the year to dispose of her.
- 296. Roadside Arboriculture.—The Divisional Officer, Amraoti, reports that the replacement of babul by nim as an avenue tree is being continued and recommends again the adoption of mango and sissoo as suitable trees. In Buldana it is reported that the planting of trees does not receive the attention it deserves, while numerous gaps are being made in roadside avenues by the removal of trees to supply fuel for steam rollers. Reports from other Divisions are lacking on this subject

H. H. FORTEATH,

Conservator of Forests, Northern Circle.
F. TRAFFORD,

Conservator of Forests, Southern Circle.
A. W. BLUNT,

Conservator of Forests, Berar Circle.

## Review of the Forest Administration Reports of the Northern, Southern and Berar Circles of the Central Provinces for the year 1912-13.

At the close of the year the total area of forest under the control of the Forest Department was 20,572 square miles as compared with 21,038 square miles at the beginning, or a net decrease of 466 square miles:—

			Area on 1st July 1912,	Area on 30th June 1913
			Sq. miles.	Sq. miles.
Central Provinces	(A Class	•••	15,689	15,696
	" B-I Class	•••	1,924	1,496
	A Class	141	2,154	2,155
<b>D</b>	В "	•••	84	84
Berar	"]c "	•••	1,153	1,117
	(p "	4+*	34	24
			21,038	20,572

The area of the Central Provinces and Berar being 99,874 square miles the percentage of State forest to the whole of the Province is 20'6 or roughly one-fifth. The additions amounted to 30 square miles and were chiefly due to areas obtained by exchanges made for the simplification of boundaries, recalculation of areas and afforestation. The reduction in area amounted to 496 square miles, due mostly to the disforestation of B-I Class forest in Nimar (265 square miles) and Betul (108 square miles) for ryotwari Settlement, by exchanges (34 square miles), recalculation of areas, and other disforestments.

Satisfactory progress was made in regard to the disforestation of small blocks of C Class forest in Berar. By removing the small areas from the control of the Forest Department not only is the area of grazing land for the villages in the vicinity increased, but difficulties in regard to administration are removed and trouble to the people avoided.

2. The area finally settled during the year amounted to 14.5 square miles.

Settlements.

In all cases, the Deputy Commissioners of the districts concerned were appointed to act as Forest Settlement Officers, so that no special expenditure was incurred.

Nineteen square miles for the Province as a whole were undergoing Settlement at the close of the year (Northern 6.14, Southern 5.49 and Berar 7.49). An area of 32 acres in North Chanda which has been shown as under Settlement for several years was excluded this year as it was decided to be undesirable to afforest the area in question. In addition to the above, the provision of the Land Acquisition Act were resorted to in order to acquire an area of 3.55 acres in the Betul Division to rectify a boundary, but proceedings for the Settlement of the plot were not instituted before the close of the year. Proceedings under the Land Acquisition Act were also started for the acquisition of various plots in Yeotmal and Akola with the object of creating them reserved forests.

3. The total expenditure on demarcation during the year was Rs. 23,585

Demarcation.

against Rs. 19,309 in the preceding year. Exchanges
of Government forests with malguzari areas necessitated
43 miles of new demarcation at a cost of Rs. 252. In addition, 78 new pillars
were erected, 1,169 pillars reconstructed and 511 pillars dismantled at a total
cost of Rs. 281, the total expenditure on new works being Rs. 933. The work
done during the year comprised the thorough repair of all pillars over 4,008
miles of boundary line, the checking with the survey maps of 3,775 miles and
the clearance, without reference to fire-protection of 8,953 miles: 23,289 pillars,

10,351 'worlies' and 279 'gotas' were also repaired. Progress was made, more particularly in Saugor in the simplification of boundaries, several exchanges of land with malguzars being made with this object during the year. The total length of the boundaries at the close of the year was 36,065 miles, the percentage of artificially demarcated boundaries being a little less than that in the previous year, 90 2 against 90 8. The length of natural boundary was 3,362 miles, and 170 miles of the new reserves formed in the Melghat were still to be demarcated at the close of the year.

The five year schemes for the up-keep of boundaries were sanctioned for the Jubbulpore, Damoh, Hoshangabad and Chhindwara Divisions. The Saugor scheme has been kept pending the revision and simplification of boundaries now in progress. For the rest of the Province as a whole the schemes were worked up to except in the case of the North Chanda and Raipur Divisions. The Conservator should impress on the Divisional Forest Officers concerned the importance of the matter The Conservator of Forests, Southern Circle, reports that the condition of the boundaries in the Raipur Division leaves a great deal to be desired and may necessitate the employment of Surveyors in the following cold-weather.

- 4. The work carried out in Berar by the Survey of India, Party No. 6, comprised 124 square miles in Yeotmal, 97 square miles in Akola and 154 square miles in Buldana, with interior details on the 2-inch scale and boundary surveys on the 4-inch scale of 380 and 605 linear miles in Akola and Buldana, respectively. In the Melghat Division Rs 699 were spent on surveying the interior detail of 44 forest villages and a number of local surveys of forest villages was carried out in various Divisions of the Southern Circle.
- 5. The total expenditure on the constitution of State forests was Rs. 60,508

  Constitution of State forests

  as compared with Rs. 41,584 in 1911-12, the Northern Circle being responsible for the entire increase, vis.,

  Rs. 28,690 against Rs 8,603 due to the purchase of Indpura and Singora malguzari villages, Hoshangabad Division, at a cost of Rs. 20,000. The compensation paid to the Melghat Rajas for forest rights amounted to Rs. 15,557 as usual.
- Working-plans.

  progress was made. Working-plans for the Nagpur-Wardha, South Chanda, Nimar and Buldana Divisions were completed during the year but are still in the press, while that for the Chhindwara Division was prepared and finally submitted by the Divisional Forest Officer by the end of the year, and received by the Chief Conservator after the close of the year. On account of Mr. Donald's deputation to the Imperial Forest College and there being no officer available for the work much progress could not be made with the working-plan for the Melghat Division, while the Akola plan is still under compilation. A beginning was made on the field work of the Yeotmal Working-plan. The revision of the Bilaspur Working-plan was completed during the year and the Local Government's orders on the special Revenue Officer's report have been issued since the close of the year. The work of revising working-plans for the Balaghat and Raipur Divisions continued to receive attention, but some delay is likely to be caused in both Divisions, more particularly in the latter owing to the maps of these forests not having been kept up to date. The field work on the working-plan for the Amraoti Division was completed during the year.

The Divisional Forest Officer, North Chanda, was appointed to revise the existing working-plans for the Division, but little progress has been made. The Conservator has represented that the supply of forest produce in this Division is almost twice the demand and that in view of possible disforestments for irrigation projects in the future the revision of the plan might be postponed for the present. A new working scheme for the Garhakota high forest of the Saugor Division was prepared and a rough scheme for the Khanat Sal forests of the South Mandla Division was also compiled.

From Form No. 11 it will be seen that of the total forest area of 20,572 square miles, working-plans have been sanctioned for an area of 8,191 square miles, excluding 4,416 square miles of this area regarding which revisions of plans are in progress. New plans are being made for 8,862 square miles, and are not considered necessary for 3,497 square miles: a large part of this area consists of the B-I Class forests which are reserved for the extension of cultivation and are ultimately to be disforested for this purpose. The provisions of existing working-plans were worked up to as far as possible, the chief exceptions being in the Seoni, Akola and Betul Divisions, where owing to absence of demand and inaccessibility of the forest, fellings were considerably in deficit. The provisions of the revised working-plan for the Bori Reserve in the Hoshangabad Division could not be followed again this year owing to there being no purchaser for the coupes.

The only regular preliminary working-plan report sanctioned during the year was that for the Melghat Division, while the necessity having arisen in the Seoni Division for the revision of the existing working-plan, data are being collected for a preliminary report. In the meanwhile, however, a scheme of fellings for the ensuing year was sanctioned provisionally.

Annual Plans of operations were drawn up and adhered to with few exceptions and without material deviations, save in the Mandla Division where collection of harra had to be undertaken departmentally owing to inadequate offers for the purchase of the leases.

7. The following table compares the amount and cost of the work on comcommunications. carried out in the three Circles during the year under review and 1911-12:—

			New v	vorks.	Repa	urs.	Total.
Circle.		Year,	Length.	Cost.	Length.	Cost.	Cost.
<del></del>			Miles.	Rs.	Miles.	Rs.	Rs.
Northern	(	1912-13	290	20,674	864	6,312	26,986
Northern	{	1911-12	277	17,475	820	4,678	22,151
Southern	5	1912-13	95	23,881	1,751	14,507	38,388
Southerff	{	1911-12	<b>153</b>	20,506	1,740	8,996	29,502
Berar	S	1912-13	132	20,862	1,544	11,062	31,924
Defai	Ş	1911-12	152	6,005	1,345	9,691	r5,69 <b>6</b>
<b></b>	(	1912-13	517	65,417	4,159	31,881	97,298
Total	··· {	1911-12	582	43,984	3,905	23,365	67,349
		Difference	***	1 21,433		+8,516	+ 29,949

The expenditure incurred during the year 1912-13 rose by Rs. 29,949, the cost of new works and of repairs being increased by Rs. 21,433 and Rs. 8,516, respectively. The increase in expenditure was chiefly in the Berar Circle. In the aggregate 210 miles of regular cart roads, 55 miles of coupe and feeder roads, 18 miles of inspection and other paths and 234 miles of alignments with road traces were constructed at a cost of Rs. 61,765, Rs. 1,319, Rs. 384 and Rs. 1,949, respectively, the average cost per mile in each case being Rs. 294, Rs. 21 and Rs. 9 82 miles of the regular cart roads were constructed in the Northern Circle, mainly in the Hoshangabad, and Damoh Divisions, while in the Southern and Berar Circles 63 and 65 miles, respectively, were made, the Divisions in which most of this work was carried out being Balaghat, Bilaspur and Raipur in the former Circle and Buldana, Akola and Nimar Divisions in the latter.

A special grant of Rs. 50,000 was allotted to the Forest Department during the year for road works. Out of this amount the sum of Rs. 35,000 was made over to the Public Works Department for the construction of the Weinganga

causeway (South Chanda Division), Dhamtari-Sihawa road, etc. The balance of Rs. 15,000 being allotted to the Conservators, Northern and Berar Circles, for roads.

In 1913-14, Government allotted the following grants for road works:-

Rs.
15,000 Imperial grant.
\*25,000 ,, ,,
40,000 Provincial grant.

The Imperial grant of Rs. 15,000 was divided equally among the three Circles, while the Provincial grant of Rs. 40,000 was allotted to the Circles as follows:—

				Ks,
Northern Circle	•••		***	8,500
Southern Circle			***	23,000
Berar Circle	***		•••	8,500
				-
		Total		40,000

As regards the Imperial grant of Rs. 25,000, Rs. 21,700 were allotted to Northern Circle for road works in the Hoshangabad Division and the balance of Rs. 3,300 was placed at the disposal of the Public Works Department for the same purpose. The extra grant of Rs. 13,500 referred to by his Conservator, Northern Circle, in his report is the Provincial grant of Rs. 8,500 plus the Imperial grant of Rs. 5,000 mentioned above.

Rs. 85,777, which exceeded that of the previous year by Rs. 11,308. The increase was shared by all Circles. Out of this sum Rs. 58,493 was spent on new works and Rs. 26,779 on repairs. Under new works there was an increase in each Circle, while under repairs all Circles, except Berar, showed a decrease. In addition to above, Rs. 180 in the Northern Circle and Rs. 325 in the Southern Circle were spent on pay of establishment, such as malis, ctc. Good progress was made in almost every Circle in housing the subordinate staff, 68 per cent of the total outlay of Rs. 58,493 having been spent on this work. The Conservator, Berar Circle, however, observes that the housing of subordinates is still in a very backward state in some Divisions. The question of standard plans for Range Assistants' quarters was discussed in the Conservators' Conference held in June 1913 and an experiment to decide on a suitable plan is in progress. The problem regarding the housing of Forest Guards is somewhat difficult. It is essential that these subordinates should be provided with suitable accommodation, especially in unhealthy tracts, but, as the Conservator, Berar, points out, it is difficult to design buildings giving sufficient accommodation of substantial structure that are not unduly expensive. Rs. 12,800 or 22 per cent were spent on "Rest-houses", while other miscellaneous huts, etc., involved an expenditure of 8 per cent, or Rs. 4,683.

Out of the special grant of one lakh of rupees alloted to the Forest Department a sum of Rs. 40,000 was placed at the disposal of the Public Works Department for the construction of new buildings for the Forest School at Balaghat.

The principal works are -

The enlargement of the school building, new students' quarters and the construction of a hospital and more quarters for the staff.

9. The total expenditure on tanks, wells and other miscellaneous works during the year amounted to Rs. 36,202 as compared with Rs. 46,478 in the preceding year, the decrease occurring chiefly in the Berar Circle.

The amount spent on new tanks was Rs. 9,098 and on new wells Rs. 14,185, the expenditure on repairs being Rs. 3,073 and Rs. 3,956, respectively.

From the special grant of one lakh allotted to the Forest Department in 1913-14.

In the Northern Circle the last section of the Patesur Tank (Seoni Division) was completed. The Cheola Baleh Tank (Saugor Division) continued to leak but is reported to hold water during the year. The Padrai Tank in the same Division, however, was practically dry by January. In the Southern Circle, the bund of the Nagjhiri Tank (Bhandara Division) burst, it was repaired at a cost of Rs 3,461, the total expenditure amounting to Rs 6,440

In the Berar Circle, the Kaiwani Tank (Nimar Division) was completed, but the Deputy Commissioner remarks that it is reported to be a failure. Good progress was made in this Circle in the construction of new wells, 29 being completed during the year and 9 being under construction. The Deputy Commissioner, Amraoti, has called attention to the urgent need of more wells in forest villages and in grazing areas in the Melghat, and the question of improving the water-supply by means of wells should receive the careful attention of the Conservator.

In the Nimar Division, 19 temporary bunds were thrown across nalas to hold up water in anticipation of a greatly increased domaind for grazing during the hot weather. A similar bund was constructed in Yeotmal, the total cost being Rs. 710 It is not stated in how far the bunds served their purpose, but it would appear to be worthy of consideration whether more permanent bunds should not be constructed, as nalas closed in this manner are likely to form particularly suitable forms of tanks. In the Northern Circle, 7 wells were completed during the year and 9 were still under construction.

In the Southern Circle, 23 wells were constructed, 10 of these being in South Chanda Division and 5 in Balaghat Division.

The revision of the tank programme referred to in the review for 1911-12 is still under preparation, but it is hoped that it will be submitted to Government shortly.

The total outlay on roads, buildings, tanks, wells and miscellaneous works was Rs. 2,19,277, as compared with Rs 1,88,296 in the preceding year.

Forest offences.

of the year compare with those of 1911-12 and with the average of the past three years:—

	N	orther	a Circle		s	outher	n Circle	L		Berar	Çırcle	······································	1	To	tal.		]
Nature of offence	Ayerage three years,	1911-12.	1912-13.	Increase or decrease as compared with 1911-13.	Aretage three years	1911-12.	1912 13	Increase or decrease as compared with 1911-12	Aretage three years.	1911-12.	1912-13.	Increase or decrease as compared with 1913-12.	Average three years.	1911-12,	1912-53.	ase as	Porcent- age of total cases of 1912-13.
1.—Injury by fire	273	217	136	-8r	135	110	87	-23	80	47	37	10	491	374	260	E14	я
11 -Unauthor : z e d fellings.	1,611	1 ,548	1,810	1 262	1,350	1,339	1,933	-17	1,134	1,202	1,595	+393	4.075	4,089	4.727	+6;8	4\$
111-Unauthor ize d grazing.	1,084	975	1,455	1-28c	850	982	1,149	+ 157	2,287	2,168	2 676	+ 508	4,227	4,185	5,080	+955	48
IV -Other offences.	53	61	76	нхБ	56	57	35	72	301	ott	485	+265	310	338	596	+258	5
Total		2,801	3,277	+ 476	2,380	2,488	a,593	43105	3,792	3,637	4.793	+1,156	9, 143	8 9 16	10,563	+1737	**

The cases of the year exceeded the average of the past three years by 1,560 and those of 1911-12 by 1,737. Whilst it is satisfactory to observe that there was a decrease of 114 in the number of cases of "Injury by fire" due mainly to a favourable season and more adequate precautions, it is somewhat disconcerting to see the increase compared with 1911-12 under the other three heads.

Under "Unauthorized fellings", there was an increase of 262 cases in the Northern Circle and 393 in the Berar Circle. The increase in the Northern Circle occurred in all Divisions except Saugor, and is ascribed to better vigilance on the part of the staff in detecting offences.

The reasons for the increases in the Berar Circle, which appear to have occurred chiefly in Buldana, Yeotmal and Nimar Divisions, are not clearly explained by the Conservator. He, however, notes that the restrictions now being introduced on the removal of produce from the newly constituted A Class reserves in the Melghat have not been enforced with undue severity on the Korku population since the increase in the number of unauthorized removals of produce was only 15 (from 52 to 67).

Under "Unauthorized grazing", the increases in the number of offences as compared with the preceding year were Northern Circle 280, Southern Circle 167 and Berar 508.

The increases are considerable, and are attributed in the Northern Circle to the tendency of the people to evade the new grazing rules: the most marked increases were in Damoh (114), Chhindwara (109) and Saugor (67).

In the Southern Circle, an increase occurred in all Divisions except Nagpur-Wardha Division, and is considered generally to be due to greater energy on the part of the staff.

In the Berar \*Circle, the most marked increases were in Buldana (216) and Yeotmal (254) and they are ascribed to the scarcity of fodder which led the people to graze their cattle in closed areas with the hope of escaping detection.

The Deputy Commissioner, Buldana, in commenting on the sudden rise (51'4 per cent) of grazing offences, whilst admitting that there was a scarcity of fodder, which, however, did not prove to be as acute as was feared, states that this scarcity does not wholly explain the large increase; he considers that the penalty recovered as compensation is often too low and that the amount should be substantially greater than the fines recovered at the cattle pound so as to be a real deterrent. Other Deputy Commissioners express similar views, and the Deputy Commissioner, Nagpur-Wardha, remarking "People do not graze cattle or cut wood without licenses through inadvertence and if the small number of such cases that are detected are leniently dealt with a kind of direct encouragement to illegal grazing or removal of produce is the result." In view of the fact that new grazing rules have recently been introduced for the Central Provinces and that the existing rules in Rerar will probably be revised shortly, it is desirable that the rules should be worked with sympathy and leniency until they are fully understood by the people, at the same time when it is decided that compensation should be levied, the amount taken should be sufficient to act as a deterrent.

Out of the total number of cases of the year, 257 cases, or 2 per cent, were taken into Court; 9,887 cases, or 87 per cent, were settled by compensation under Section 67 of the Forest Act; 371 cases, or 3 per cent, remained undetected and 937 cases, or 8 per cent, were pending at the close of the year. Of the cases taken into Court convictions were obtained in 86, 76 and 75 per cent in the Berar, Northern and Southern Circles, respectively, the percentage for the Province as a whole being the same as last year, vis., 79. The punishments inflicted by Courts are reported to have been on the whole adequate in all the Circles, except in the Chhindwara Division. It is stated that the District Magistrate has, however, taken action in the matter. The Conservator, Southern Circle, remarks that some Divisional Forest Officers do not appear to exercise sufficient discretion before sending cases up to Court as to whether the evidence is strong enough to ensure conviction or not. The most important case prosecuted during the year was that of a timber contractor in the Nimar Division who felled unmarked trees in his coupe and was sentenced to 6 months' rigorous imprisonment. The Conservator, Berar Circle, observes that this conviction and punishment have contributed largely to a serious decrease in the amounts bid for the current year's coupes. He further adds that this will have a salutary effect on the working of lessees for some time to come. The number of cases compounded was 9,887 and the average compensation

realized per case and per person were, respectively, Rs. 8-5-1 and Rs. 3-1-4 in the Northern Circle, Rs. 6-0-4 and Rs. 2-5-0 in the Berar Circle and Rs 8-2-0 and Rs 2-7-0 in the Southern Circle, where the compensation varies from Rs. 1-3-7 per head in North Chanda to Rs 3-15-9 per head in Balaghat.

Rules for the regulation of timber and fuel in transit in the Yeotmal District were prepared with the concurrence of the Commissioner, Beiar, and notified shortly after the close of the year. It is hoped that they will lessen the possibility for illicit removals of forest produce

The following statements compare the results of fire-protection during the last three years and the origin of forest fires of the year under review with that of the preceding year—

Circle.	Year of protection.	Area protected, 1911-17	Area sttempted to be pro- tected	Failures.	Area actually protected	Cost	Percent- age of area actually protected
		Acres	Acres.	Acres.	Acres.	Rs.	
Northern	1910-11 1911-12 1912-13	1,777,640 1,713,000 1,692,786	1,761,220 1,753,272 1,971,486	43,220 60,486 48,515	1,713,000 1,692,786 1,922,971	28,405 30,047 33,028	97 97 98
Southern	1910-11 1911-12 1912-13	2,980,064 3,170,227 2,921 709	3,270,064 2,969,095 3,098,263	59 837 46,386 49,945	3,170,227 2,921,709 3,048,318	54,581 45,771 48,054	98 98 98
Berar	1910-11 1911-12 1912-13	2,278,581 2,317,609 2,274,317	2,470 329 2,413,925 2,327,231	131,597 139,608 18,316	2,338,732 2,274,317 2,308,915	40 <b>.</b> 676 38,853 33,691	94 94 99
Total	1910-11 1911- 2 1912-13	7 036 285 7 200 836 6,888,812	7,461,613 7,135,292 7,396,980	239 654 246,480 116,776	7,221,059 6,888,812 7,280,204	113,662 114,671 114,773	97
Square miles		***	11,558	182	11,376	.,	

	Nor	thein	So	uthern	В	erar	Total,	1912-13	Total, 1911-12.	
Origin of fire	Num- ber of hres	Acres burnt	Num- ber of fires	Actes burnt	Num- ber of fires	Acres burn:	Num- ber of fires	Acres burnt	Num- ber of fires.	Acres burnt.
A -Burning lines	11	10,010	16	4,027	7	3,434	34	17,471	63	12,163
B -Crossing exterior lines.	12	3,654	14	13,731	2	825	28	18,210	42	34,365
C —Persons in forests (accidental)	27	13,283	28	10 382	12	3,126	67	26,791	75	95,720
D —Persons in forests (incendiary)	1	573	3	4,312			4	4,885	6	5,039
E-Railway Engines	3	160	5	1,035	1	95	9	1,290	7	1,769
F -Causes unknown	44	20,835	26	16458	9	10,836	79	48,129	114	97,424
Total	98	48,515	97	49,945	31	18316	221	116,776	307	246,480

The area attempted to be protected rose from 7,135,292 acres, or 11,149 square miles, in 1911-12 to 7,396,980 acres, or 11,558 square miles, in 1912-13. There was an increase of 218,214 acres and 130,168 acres in the Northern and Southern Circles, respectively, while the Berar Circle showed a decrease of 86,694 acres consequent on the removal from fire-protection of certain areas in the Betul Division and on the early burning instead of systematic protection of considerable areas in the Nimar Division. The chief increase in the Northern

Circle occurred in Mandla where protection was extended to the Khannat forests. The success attained in the fire-protection during the year under review was very satisfactory, 28 per cent of the area under protection having been successfully protected. The percentage of failure on the Northern Circle fell from 3 to 2, in the Southern Circle it was the same as last year, while in the Berar Circle there was an increase of 5 per cent in the success attained Though some showers of rain in January and February delayed the work of finally burning the lines to some extent, yet fairly heavy and general rainfalls in the latter part of May shortened the season of danger and the heat and drought were neither so intense nor so prolonged as in recent seasons. It is satisfactory to be able to note that the policy of burning early areas where systematic protection could not be carried out was responsible to some extent for the success obtained was a gratifying decrease in the Northern and Berar Circles in the number of fires caused by carelessness in burning fire lines. The area burnt by this cause in the Damoh Division was, however, conspicuously large and the subordinates at fault have been suitably dealt with. There were in all 221 fires burning an area of 116,776 acres during the year under review against 307 which covered 240,480 acres in the preceding year. Practically complete success was attained in protection in the Akola, Amraoti, Yeotmal, North Mandla and Hoshangabad Divisions, the results being very good also in South Chanda, Bhandara, Melghat and Buldana, but in Damoh and Raipur the percentages of failure were 10 and 5, respectively In the latter Division, one fire, which spread from the Madras border, burnt 10 square miles It is hoped that some suitable arrangement will be agreed on with the Madras Government to prevent a similar occurrence. The greater area burnt in the Damoh Division was due, it appears, to the protective measures having been extended during the year to a considerably larger area.

The average cost per square mile of fire-protection for the Province fell from Rs. 10-4-7 in 1911-12 to Rs. 9-14-11 in the year under review. The highest cost (Rs. 18-0-10) was in the Amraoti Division, in which Division the cost of protection is always high owing to the small areas of the reserves. The high cost appears, however, to be susceptible of reduction.

throughout the year and 2 per cent for a portion of the year in 1912-13 against 17 per cent and 2 per cent, respectively, in the year 1911-12. 82 per cent was open to the grazing of all animals, except browsers, for whom 35 per cent was available, the same percentages for the preceding year being 81 and 36, respectively. The proportion of total closure varies from Circle to Circle, being 13 per cent in the Northern Circle as in the last year and 22 and 10 per cent, respectively, in the Southern and Berar Circles, showing a decrease, in each case, of 2 per cent over those of 1911-12.

The total number of cattle impounded during the year compares as follows with that in the previous year:—

Cir	cle.	1911-12	1912-13	Increase.
Northern	••4	4,095	4,311	+215
Southern		4,691	3,384	-1,307
Berar	,	4,743	6,035	+ 1,292
	Total	13,530	13 730	Increase 200

The increase in the Berar Circle is ascribed to animals straying from their herdsman owing to semi-starvation, while the reason for the marked decrease in the Southern Circle has not been given by the Conservator.

13. The effects of frost during the year were slight. A severe hailstorm Protection against injury passed over Seoni and Chhindwara, several trees were uprooted and great damage was done to the lac and mahua crops.

Considerable damage was caused by the teak defoliator (Hybloea puera) especially in Betul and the Melghat The teak in the Chhindwara, Seoni, Damoh and Jubbulpore Divisions also suffered. The bamboo weevil continued to cause damage, but now that it's life history is more accurately known, it is hoped greatly, to reduce the damage in future. The injury caused by the sal borer is reported to be less than in the preceding year. It is satisfactory to learn that the damage done to babul by the beetle, Corlosterna spinator, has apparently been arrested by the thinning and pruning of young plants. The efforts to restrict the spread of Loranthus were continued in the Northern Circle, some 45,000 trees being freed from this pest.

In the Melghat 1,800 acres were cleared of lantana. This pernicious shrub does not at present constitute a serious menace to forest growth in this Province, but care must be exercised to prevent it extending Good progress appears to have been made with the cutting of climbers and it is hoped that the experimental measures for the eradication of the Ironi creeper, which is abundant in the Southern Circle, will prove efficacious.

Natural regeneration.

Natural regeneration.

Natural regeneration.

Natural regeneration.

Natural regeneration.

Natural regeneration.

Reproduction from seed in this Circle was also not satisfactory as a result probably of short rainfall. Natural regeneration in the Southern Circle is reported to be as poor on areas absolutely closed to grazing as on the open areas. The experiment of alternate opening and closing of areas for five years is being tried in some Divisions. Coppice reproduction was good in almost all Divisions save in the Berar Circle where only in Betul and parts of Akola Division satisfactory growth was reported.

Artificial reproduction.

Of this 637 acres of teak, bamboo and sandal are in the Northern Circle, 156 acres of sandal in the Southern Circle and 27 acres of bamboos in the Berar Circle.

In the Berar Circle the system of clear felling areas and then giving them out for cultivation for field crops combined with the sowing of forest seeds, was continued. 531 acres in babul bans and 140 acres in mixed scrub forest were treated in this way in Amraoti, Buldana and Akola Divisions. It is satisfactory to learn that in the area already worked under this system the results obtained in stocking the land are good. It is reported that the modifications in the rules, extending the period for the cultivation of cotton, appears to make the system more popular.

Various experimental sowings of different species were made, principally in the Northern Circle, but the results recorded are not very promising.

Operations for the improve. and were carried out over an area of 644 acres at a cost ment of the growing stock. of Rs. 759 during the year against 937 acres and Rs. 950 respectively, in 1911-12. Including the value of a small quantity of material unsold at the close of the year the revenue derived from these operations was Rs. 2,518 against Rs. 1,687 in the preceding year.

Besides the above operations the young growing stock of babul was pruned and thinned over 411 acres at a cost of Rs. 640.

The following statement compares the cutting back operation carried out during the year under review with those in 1911-12:—

Circle.			Year.	Area in acres.	Cost.	Revenue	Remarks.
			2	3	4	5	6
					Rs	Ra.	
			1912-13	27.775	7,774	4,122	
Morthern		* {	1911-12	21,890	5,364	1,114	
m1		(	1912-13	6,503	2,021	1 391	
Southern		. []	1911-12	5,160	2,749	3,041	
<b></b>			1912-13	41,063	14,259	5,869	Impterial unsold at th
Berar		. [	1911-13	37,298	10 447	13,358	close of the year, and Rs 335 being the value
	<b>.</b>	(	1912-13	75,341	24,054	11,382	of the balance of las year's stock sold.
	Total	. []	1911-12	64 357	18,560	17,5 3	July 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

Good progress was made in this important work on which the future of the forests so much depends in the Northern and Berar Circles. In the Southern Circle, however, from the figures available it does not appear that it is receiving the attention it descrees; there was a slight increase in the comparatively small area worked over, but this is apparently more than accounted for by the fact that the work hitherto shown as improvement fellings in the South Chanda. Division has this year been included in the cutting back operations. The Conservator states that the work is carried out by purchasers under the terms of their agreements, as well as departmentally, but this is true to a large extent in the case of the other Circles. The exact progress made should be more clearly shown in the next year's report. The work is of such importance that a considerable expenditure is justified without reference to the revenue that may be derived from the sale of the produce obtained from the operations.

17. Experiments were carried out in all Circles for the purpose of ascertaining the rate of growth of trees of various species, Experiments the rate of coppice growth, the effect of thinning on coppice shoots, the yield of grass for fodder on different soils and under varied conditions, and the incidence of cattle grazing and its effect on forest growth. In the Northern Circle experiments to test the effect of the season on felling in coppice reproduction were again conducted under the directions of the Forest Botanist. In the Damoh and Saugor Divisions of this Circle experiments to ascertain the effect of forest fires in different months on tree growth and development of forest crop are being continued. Lac was experimentally planted on some pales and ghont trees in Jubbulpore Division, while in the Hoshangabad Division a small area was planted and sown with "tur" and the plants were infected with lac. It is reported that Chir Pine is doing well in Balaghat, and Sandal wood is tending to produce itself naturally from the seed from the plantations in North Chanda Sample plots to ascertain the most suitable intensity for thinnings in babul bans, to investigate the varieties of babul, and to detern ine the correct height for pollarding anjan, and to ascertain the best conditions for seed regeneration of the same species were maintained in Buldana, Akola at d Nimar Divisions. In Betul 300 sleepers of saj were treated under the direct supervision of the Forest Economist with zinc chloride and heavy oil. The sleepers are to be made over to the Great Indian Peninsula Railway for trial. Experiments in tapping salai for resin were continued in Nimar and Melghat, those in the former division being more promising. Investigations to determine the best method of eradicating the Ironi Creeper in the Southern Circle were continued. It is to be regretted that not much progress was made in improving the methods of recording statistics in regard to sample plots.

18. The statement given below compares the areas in which the various methods of treatment were employed during the year with those in the previous year:—

Olas I.	C) fells			ection In		tement ings	Coppid stand			ings of les.	Total.	
Circle.	1912-13	1911-12	1912-13	1911-12	1912-13	1911-12.	1912 13.	1911-12	1912-13	1911-12	1912 13	1911-12.
I	,	3	4	 5	6	7	8	9	10	21	12	13
	Acres.	Acres	Acres	Acres	Acres	Aeres,	Acres	Acres	Aeres	Acres	Acres	Acres
Northern			2,591	2,490	24 254	28.383	14,053	9,726			40,908	40 699
Southern	1		480	465	18,367	1 3,350	40,290	40,096			\$9 ±37	\$3,911
Berar	578	460			28 185	27,114	23,080	13,189			52 043	40,76
. Fotal	578	460	3,071	3 955	71,0 6	68,847	77,423	63,011			152,058	135,573

From this it will be seen that there was a satisfactory increase of 16,715 acres in the area subjected to systematic fellings. The increases occurred mostly in the Berar and Southern Circles There were, however, considerable deficits under the new Bhandara and Nagpur Working-plans and this matter should receive attention of the Conservator.

In addition to the above, unregulated fellings were made in C class areas of the Berar proper and in the nistar areas of the Betul and Nimar Divisions, while in the Northern Circle these fellings were carried out in all the Divisions, except Chhindwara, and were restricted generally to the nistar areas as well as to those in which the prescriptions of the regular working-plans were held in abeyance. In the Mandla Division these fellings were permitted to the extent of removal of teak and saj timber from excised areas and 1 you wari waste.

The orders of Government on the question of restricting unregulated fellings by commuters in the Mandla Division (referred to last year) were issued after the close of the year. The rules now to be brought in force cannot fail to have a beneficial effect.

19. The following statement compares the principal kinds of minor forest produce extracted from the forests during the year and the revenue realized with the results of the preceding year:—

**- * - * - *	1	North	ern.	South	ern.	Bera	ır.	Tot	al.
Kind of produce.	Ì	1911-12.	1912-13	1911-12	1912-13	1911-12.	1912-13,	1911-12	1912-13
I		2	3	4	5	6	7	8	9
		Rs,	Rs.	Rs.	Rs,	Rs.	Rs.	Rs.	Rs.
H <sub>arra</sub> .	]	14 065	22,579	34,442	2 <b>0,</b> 0 <b>6</b> 0	2,460	1,951	50,967	44,590
Lac		16,622	×5,353	14,715	ro,0 <b>7</b> 5	1,683	б14	33,020	26,04.2
Mohwa and Achar	]	7,263	4.471	6,342	2,346	1,605	1,204	15,210	8,021
Hides and horns		9,315	7,600	5,565	5,296	3,239	4,211	18,119	17,107
Bamboos	400	54,7 <b>61</b>	57,855	1,00,961	1,05,686	81,098	71,626	2,36,820	2,35,107
The talend and		} 1,20,961	81 <sub>1</sub> 424	52,597 57,797	2 <b>3</b> ,051 <b>6</b> 5,193	} 1,97,034	1,66,794	4,28,389	3,36,46
Russa grass		185	***	41.		33,664	33 491	33,849	33,49
Minerals	••	3,148	•••	1,723	3,176	9,527	10,041	14 398	13,21
Miscellaneous	٠.	••	** *	13,711	19,849			13711	19,84
Total	***	2,26,320	1,89,282	2,87,853	2,54,732	3,30,310	2,89,932	8,44,483	7,33,946

The revenue from these products fell from Rs. 8,44,483 in 1911-12 to Rs. 7,33,946 in the year under review, there being a decrease under each head, the items chiefly responsible for it being grass, harra, lac and mohwa and achar. The fall in the value of grass was mainly due to the fact that the 1911-12 figures included revenue from the supply during the preceding year to the Bombay Presidency, though the 1912-13 figures include Rs. 54,000 on this account in the Northern Circle. There was an increase under harra in the Northern Circle as a result of the departmental operations in the Mandla Division, the decrease in the Southern and Berar Circles being due to the poor erop.

The following statement shows the total number of animals grazed and the value of the grazing at full rates, compared with the revenue actually received:—

Circle	Year.	Buffaloes	Cows and bullocks.	Sheep and oats.	Other ani- mals	Total ani- mals.	Value at full rates.	Revenue actually received.
Į.	2	3	4	5	6	7	8	9
							Rs.	Rs.
Northern	1911-12	205,231	1,180,250	92,830	5,829	1,487,140	4,32,807	2,82,989
Northern {	1912-13	175,358	1,020,329	73,034	4,872	1,273,593	6,62,823	4,65,269
Southern . 5	1911-12	82,676	705,994	114,771	440	904 881	2,33,696	1,55,657
. 5	1912-13	78,895	687,095	102,937	б17	869,544	4,25,485	2,74,239
Berar (Nimar and	1911-12	58,425	272 799	1,632	482	333,333	1,55,168	1,15,749
Betul only).	19,12-13	58,530	276,736	2,311	354	337,931	1,75,034	1,30,319
(	1911-12	349 332	2, 160,043	209,233	6,751	2,725,359	8,21,671	5,54,388
Total Central Prov. { inces (proper).	1912-13	312,783	1,984,160	178,282	5,843	2,481,068	12,63,342	8,69 827
	1911-12	164,348	1,094,140	416,858	3 544	1,678,890	3,65,366	3,21,781
Berar (proper) }	1912-13	166,543	1 093,875	491,794	3,478	1,755,690	3,87,946	3,47,380
7-1-0	1911-12	513.680	3,254,183	626,091	10,295	4,404,249	11,87,037	8,76,169
Total Central Prov-	1912-13	479,326	3,078,035	670,076	9,321	4,236,758	16,51.288	12,17,207
Difference .	•••	-34,354	— 176, <b>1</b> 48	+ 43,985	974	<b>—</b> 167,491	+4,64,251	+ 3,41,038

While there was an increase of 81,393 in the number of animals grazed in the forests of the Berar Circle, the number in the Northern and Southern Circles showed a decrease of 213,547 cattle and 35,337 cattle, respectively. For the Province as a whole the number grazed fell from 4,404,249 to 4,236,758, or a decrease of 167,491. Although the number of cattle grazed decreased, the total value of the grazing at full rates shows an increase of Rs. 4,64,251, the increase in the revenue actually realized being Rs. 3,41,038 due to the introduction of the new grazing rates in the Central Provinces proper.

It is satisfactory to observe from the remarks made by several Deputy Commissioners that the new rules appear to be working smoothly and successfully and that the rise in rates has not been seriously felt. The question of revising the rules to prevent an excess number of ploughs over the number of actual "working" ploughs being claimed by agriculturists in order to increase the number of cattle at privileged rates is under consideration.

The grazing incidence per head of cattle in the Northern Circle ranged from 2.17 acres in the Chhindwara Division to 6.78 acres in Hoshangabad, the

average incidence for the Circle being 3.2 acres per head. In the A class forests of the Berar Circle the maximum and minimum incidences were 7.2 in the Melghat and 1.2 in the Amraoti Divisions respectively, while in the C class forest the incidence was, as usual, less than one acre per head. The incidence in the Southern Circle was 4 acres per head. Excluding the areas closed to grazing throughout the year the average incidence for the Province as a whole was 2 6 acres.

In the Central Provinces proper the number of animals grazed at privileged rates was 1,170,871 against 1,283,247 grazed at full rates, while 26,950 cattle grazed free, the respective numbers for the preceding year being 1,062,614, 1,289,513 and 19,695. In Berar the number grazed at privileged rates was 200, at full rates 1,548,610 and free 206,880. The total value of the grazing concessions in the three Circles amounted to Rs. 4,34,081 against Rs. 3,10,868 in 1911-12. Of the cattle grazed at full rates 586,925 paid the ordinary rates, 86,634 paid nomadic rates and 609,688 paid commercial rates, against 1,027,871, 132,155 and 129,487 respectively during the year 1911-12. It is satisfactory that there has been a considerable increase in the cattle of the last category.

20. The total outturn of major forest produce during the year under review as compared with that of the preceding year is shown in the following statement:—

Charles				T mher.					Fuel			_	
Circle,	Year.	Govern- ment.	Pur- chasers	Free grantees.	Right holders.	Total.	Govern- ment,	Pur chasers	l rer grantees.	Pight holders	Tetal	Total	
		3	4	5	6	7	8	9	10	11	12	13	
		C£t.	Cft.	Cft.	Cft.	Cft,	Cft.	Cft.	Cft.	Cft.	Cft	Cft	
Northern ,	1911-12	172,861	1,577,897	28,616		1,779,374	749, 260	3,889,600	253,602	<b></b>	4,492,362	6,271,736	
. (	1912-15	359,381	\$,341,553	24,163		2,725,097	538,921	4,642,931	275,493		5,458,345	8,183 442	
Southern .	1911-13	368,697	3,379,463	110,627		3,858,787	5 15.°87	15 217,001	482,566	1,11	16,345,154	20,104,241	
,	1912-15	340,897	5,033,201	79,128		5 446,220	411,592	25,382,662	\$44,927			21,785,401	
Berar	19tf-12	196,585	837,238	19,967	31,124	1,084,935	253,742	3,617,283	273,352	1,421,812	4,566,19	5,651,127	
(	1912-13	187,158	822,568	\$2,678	74,354	1,116,768	256,699	3,381,984	320,327	t, 374, <b>0</b> 19	5,334,029	6,450,797	
Total §	1971 12	738,147	5,794,618	159,210	31,124	6,723,099	1.118780	21,723,884	T,000,520	1,421,812	25 <sub>1</sub> 304 co5		
TOTAL (	1912-13	897,430	8,197,322	128,969	74,364	9,285,085		23,408,577	1,1 (1,747		27,131,555		

There was a very satisfactory increase of 2, 564,986 cubic feet in the outturn of timber. The increases were mainly in the Northern Circle (945,723 cubic feet) and Southern Circle (1,587,433 cubic feet).

There was a considerable increase (1,827,550 cubic feet) also in the outturn of fuel in which all Circles contributed, the important increases being, however, in the Northern Circle (965,983 cubic feet) and Berar (767,840 cubic feet).

The proportions of the total outturn removed by Government Agency were timber 9.5 per cent, fuel 4.4 per cent and total 5.7 per cent, as compared with 11.5 and 6 per cent respectively in 1911-12.

It is desirable that the exploitation of the forests should be, as far as possible, by the agency of purchasers, and this is now generally the case, departmental agency as a rule only being resorted to with the object of inducing contractors to take up the work later on, when they see that it can be carried out at a profit Departmental operations were undertaken in Damoh and Bilaspur with this object during the year.

Outturn, Minor Produce during the year as compared with 1911-12 is shown in the following statement:—

c	Circle		Year.	Year. Bomboos		Grazing	Other minor produce	Total.	
			2	3	4	5	6	7	
				Rs	Rs	Rs.	Rs.	Rs	
			1911-12	54 761	1,20,961	2 87,139	86 715	5,49,576	
Northern		1	1912-13	57 855	81,421	4,69,701	93 767	7,02,747	
Southern		5	1911-12	1,00,961	52,597	1,57,680	1,34,295	4,45,533	
Southern		[]	1912-13	1,05,686	23,051	2,76,737	1,25,995	5,31,4 <b>6</b> 9	
Berar		5	1911-12	82,098	1,97 034	4,82,364	86,036	8,46,532	
weiai		{	1912 13	71,626	1,66,794	5,20 026	89 <b>6</b> 99	8,48,145	
			1911-12	2 36 820	3 70 592	9,27,183	3,07,046	18,41,641	
	Total	<b>}</b>	1912 17	2,35,167	2,71,269	12,66,464	3,09,461	20,82,361	
			- 3 1	-1,653	99 323	+3,39,281	+2,415	+ 2,40,720	

It will be seen from the above that the revenue obtained during the year under review rose by Rs 2,40,720 for which the grazing receipts are responsible. The fall in the value of the grass was due to the cessation of operations for the supply of grass to the Bombay Presidency though receipts of Rs 54,000 in the Northern Circle are included. If the revenue derived from these operations is excluded from the figures of both years it will be seen that the results of the year under report were very favourable, the increase being Rs. 4,12,752, which was shared by all the Circles as shown below:—

	Circle			Bamboo	Grass	Grazing.	Other	Total
	ì			2	3	4	5	6
				Rs.	Rs	Rş	Rs.	Rs.
Northern Southern Berar	and and		: .	+3,094 +4,725 —9,472	- 2 321 + 18,584 + 56,446	+ 1,82,562 + 1,19 957 + 37,662	+7,052 8,300 +3,663	+ 1,90,387 + 1,34,066 + 88,299
		Total		-1,653	+72,709	+ 3,39,281	+2,415	+4,12,752

The increase under the revenue from grazing was due to the introduction of the new grazing rules

Attempts to induce agriculturists to buy baled grass were continued during the year and each Circle report contains an interesting account of the experiments undertaken.

It must be admitted, however, that the results obtained are not encouraging. Of 146 tons of baled grass cut and baled in the Northern Circle only 29½ tons were disposed of to agriculturists. In the Southern Circle of 207 tons baled, agriculturists only took 2 tons. In Berar they purchased apparently 174 tons out of 343 tons cut and baled.

In the Northern Circle 8 tons of loose grass were taken' by agriculturists out of 25 tons cut.

By selling the balance of grass to other purchasers the results financially were not unsuccessful, the expenditure and revenue being as follows:—

	Circle.		Expenditure.	Revenue.
	1		2	3
			Rs	Rs.
Northern	4	•	1,356	1,083
Southern	200		2,794	5,035
Berar	••	[	5,876	8,160
		Total	10,026	14,278

Whilst the efforts to induce agriculturists to use baled grass and thus extend the practice of stall feeding have not met with success so far, they might be continued for another season on a small scale in likely localites, more attempts being made to sell grass loose, where it is preferred in this form to baled grass. It appears also that there is a demand by other purchasers for baled grass, and this is a source of revenue that should not be overlooked.

Right holders, free grants 21. The following statement compares the value of and concessions forest produce given free or at reduced rates during the year with that of the previous year:—

<b>.</b>	l	Right l	olders	Free g	rants.	Conces	sions,	То	tal.
Circle.		1911-12	1912-13.	1911-12.	1912 13	1911-12	1912-13.	1911-12	1912-13
I		2	3	4	5	б	7	8	9
		Ra.	Rs.	Rs.	Rs	R9.	Rs.	Rs	Rs.
Northern				12,243	11,300	1,12,258	97,571	1,24,501	1,08,871
Southern		.,	•••	15 532	17,649	1,26,776	1,72,045	1,42,308	1,89,694
Berar		51,578	39,445	58,597	63,594	87,991	92,552	1,98,166	1,95,591
Total		51,578	39,445	86,372	92,543	3,27,025	3,62,168	4,64,975	4.94,×50

23. Below is shown the outturn of major produce and the value of the outturn of minor produce extracted by all agencies as compared with those of the year 1911-12:—

Gircle,		lin	nber	Fuel.		Bamboos.		Grase,		Grazing.		Other minor produce	
		1911 19	1911-13	1911 12	1912-13.	1941-19.	1912-13.	1911-13	1013 13	191 1-12.	1914-13.	1911-12	. 19x <b>s</b> -13
ı		3	3	4	5	6	7	В	9	10	11	12	13
Northern Southern Borar		Cft 1,779,374 3,858,787 1,084,938	Cft. 2,725,097 5,446,220 1,116,768	Cft 4,492,352 16,243,454 4,566,289	Cft 5.488,345 16 349,181 5.334,029	Re 54,761 1,00,951 87,098	Rs 57, <sup>8</sup> 55 1,05,686 71,686	R< 1,20,961 \$2,597 1,97,024	Rs 81,424 23 051 1,66,794	Rs 2,87,139 1,57,680 4,8 2,364		R1 86,715 1,84,235 86,035	Rs. 93,787 1,25,99 89,699
Total	٤.,	6,723,099	9,488,085	#5,354,00\$	27,×37,555	2,36,820	2,35,167	3,70,593	2,71,06g	9,17,181	12,55,454	3,07,046	J,09,468

24. The following statement compares the financial results of 1912-13 with those of 1911-12 and with the average of the five years ending in 1910-11:—

					Expendituic.			Per-
Circle	<b>:</b> •	Year	Revenue	A	В.	Total	Surplus.	age of net reve- nue to gross reve- nue.
I		2	3	4	5	6	7	8
		ı		Rs.	Rs.	Re,		
		Average 1906-07 to	5,63,074	1,59,254	3,01 069	4,60,323	1,02,751	18
Northern		1911-12	7, <sup>8</sup> 9,414 (6,98,198)	2,52,872 (1,63,957)	3,43 804 (3,43,804)	5 96,676 (5,07,761)	1,92,738 (1,90,437)	24 (27)
	(	1912-13	9,72 853 (9,18,853)	2,55,164 (2,10,164)	3,65,649 (3,65,649)	6,20 813 (5,75,813)	3,52,040 (3,43,040)	36 (37)
	[	Average 1906-07 to	6,89,509	2,86,040	3,16,251	6,02,291	87,218	13
Southern		1911-12	7,60,145 (7,12,01 <u>5</u> )	2,87,173 (2,48,341)	3,76,590 (3,76,590)	6,63,763 (6,24 931)	96,382 (87 984)	13 (12)
	l	1912-13	9,53,413 (9,53,413)	2,57,876 (2,57 876)	3,75,625 (3,75,625)	6,33,501 (6,33,501)	3,19,91 <b>2</b> (3,19,912)	34 (34)
	ſ	Average 1906-07 to	9,30,461	2,14,539	2,82,053	4,96,592	4,33,869	47
Berar		1911-12	11,16,629 (10,29,943)	2,58,423 (1,78,089)	3,35,891 (3,35,891)	5,94,314 (5,13,980)	5,22,315 (5,15,963)	47 (50)
	_ {	1912-13	1 1,95,622 (1 1,4 <b>6</b> ,986)	2,77,075 (2,36,015)	3 51,342 (3,51,342)	6,28,417 (5,87,357)	5,67,205 (5,59,629)	47 (49)
General	***	1910-11	,	35,0	524	35,624	- 35,624	
Direction	***	1911-12		40,1		40,623	<b>— 40,623</b>	
Division	••	1912-13	***	44,	209	44,209	44,209	•••
	-	Average 1906-07 to 1919-11.	21,83,044	6,59,8 <u>33</u> 35,	~ <i>-</i>	15,94,830	5,88,214	27
		1911-12	2 <b>6.66</b> ,188	7,98,468 40,0	10,56,285	18,95,376	7,70,812	29
Total	4		(24,40,156)		(10,56,285)	(16,87,295)	(7,52,861)	(31)
		1912-13	31,21,888	7,90,115 44.	10,92,66	19,26,940	11,94,948	38
	Į		(30,19,252)	(7,04,055) (44,1	(10,92,616)	(18,40,880)	(11,78,372)	(39)

NOTE.—Figures in brackets are exclusive of Hombay grass operations.

Bombay grass operation

.. 1,02,636

85,050 ... 86,050

16,576

Omitting the revenue and expenditure in connection with operations undertaken to supply fodder grass to the famine distressed districts of the Bombay Presidency from both the years, and comparing the results with the year 1911-12 it will be seen that the revenue increased by Rs. 5,79,096 and that the expenditure and the surplus rose by Rs 1,53,585 and Rs 4,25,511 respectively, the percentage of the net revenue to gross revenue being 39 against 31. This is an appreciable increase, and the proportion should improve yearly. The grass operations referred to above yielded a revenue of Rs 1,02,636 while Rs. 86,060 were spent on them, leaving a profit of Rs. 16,576 During the year these operations were confined to the Northern and Berar Circles. The satisfactory increase in the revenue has been contributed by all the Circles and timber and grazing are responsible for nearly the whole of it. The Chief Conservator is glad to be able to note that this year the Southern Circle has shown a great improvement, the surplus being Rs. 3,19,912 against Rs 87,084 in the preceding year and a deficit of Rs. 35,522 in 1910-11. The increase in the grazing revenue was as pointed out above due to the introduction of the new grazing rules, while better prices from sales of coupes and the payment of first instalment of the lease money by the Allapilli contractor in the South Chanda Divison and by the Bengal Timber Trading Company in the Balaghat went to raise the income from timber.

The sources of income during the last two years are compared in the following statement:—

	Particu	lars of revenue.			1911-12.	1912-13.	Increase or decrease
Marking and the second second		1			2	3	4
	•				Rs	Rs.	Rs.
Timber and other pr	oduce remov	red by Government Agency			3 08,09n (82,058)	2,61,830 (1,59,194)	- 45,260 + (77,136)
Timber and other pr	odiice remo	ved by purchasers, &c.					
Timber	4.	4**			4,55,797	5,73,122	+ 1,17,325
Firewood and charce	pal	14		•	2,28,836	2,66,262	+ 37,426
Bamboos	***	41.			2,10,487	2 11,017	+ 530
Grazing and fodder	grass	49.4		•••	10,52,415	14,09,369	+ 3,56,954
Other minor produc	8	61.6			3,01,167	2,53,436	- 37,731
Miscellaneous	***	***			1,09,396	1,36,852	+ 27,456
		)	Total	**	26,66,188 (24,40,156)	31,21,888 (30,19,252)	+ 4,55,790 + (5,79,296)

There was an increase under each head except "other minor produce" under removals by purchasers and it is satisfactory to note that this increase has again occurred under timber and fuel which indicates that the demand for major forest produce is steadily increasing.

With a continuance of the policy of opening out the forests by suitable communications, the exploitation of timber, fuel and bamboos should steadily increase. The introduction of revised grazing rates will go far to improve the source of revenue and it is desirable now specially to consider how better financial results can be obtained from the disposal of minor forest products. This matter was discussed at the last Conservators' Conference, and the Chief Conservator desires to call the attention of Conservators and Divisional Forest Officers to the necessity of giving careful consideration to these sources of revenue, and would invite attention to the following as being likely to repay special study.—

<sup>(</sup>i) The manufacture of tanning extracts from babul bark, and myrabolans, (ii) the manufacture of Rusa oil, and oil from Kusum seed, (iii) the disposal of fodder grasses.

Investigations have already been commenced in regard to most of the above. in consultation with the Forest Economist, and with the assistance of the Tanning expert good progress should be made, and more satisfactory financial results obtained.

Excluding the Bombay figures the expenditure under A shows an increase from Rs. 5,90,387 in 1911-12, to Rs. 7,04,055 in 1912-13 I his increase was due to the enhanced commission paid to license vendors owing to the increased revenue, departmental collection of harra in Mandla, and departmental operations of timber and fuel in Damoh, more expenditure on roads, buildings and other operations for improvement of the torests and to the payment of Rs 20,000 as the purchase money of the Indputa and Singora Malguzari villages in the Hoshangabad Division.

The percentage of revenue to expenditure of the total revenue obtained from various sources and of the total revenue spent on various works of improvement and organization and on establishment are exhibited in the following statement.

	Northern.	Southern.	Berar	Province
	ī	2	3	4
•	Per cent	Per cent.	Per cent.	Pcr cent
Total expenditure to Revenue	63	66	51	бо
Expenditure A to total Revenue	23	27	20	23
Expenditure B to total Revenue .	. 40	39	31	37
Surplus to total Revenue	37	34	49	40
Percentage of total Revenue obtained from-	1			
(1) Major produce, timber and fuel	26	42	26	31
(2) Bamboos	6	10	6	7
(3) Grass and grazing	53	30	55	46
(4) Other minor produce	10	14	8	11
(5) Miscellaneous	. 5	4	5	
Percentage of total Revenue spent on-				
(1) Roads and bridges (A VII-a)	. 3	4	3	
(2) Buildings (A VII-b)	. 2	4	3	1
(3) Tanks, wells, etc (A VII-c)	1	2	1	
(4) Fire protection (A VIII-f)	4	5	3	
(5) Other works cutting back operations, et. (A VIII-g).		1	1	
(A) Pay of establishment	33	31	25	20
(a) Conservators	2	2	2	
(b) Superior officers	. 11	10	7	,
(c) Subordinate establishment	. 15	13	12	,
(d) Office extablishment	5	6	4	

Note -These figures exclude Revenue and Expenditure in connection with the Bombay grass supply as well as the expenditure of the General Direction Division

The post of the Chief Conservator was held by Mr. Hart, C I. E., up to the 4th April 1913, when the writer relieved him on his promotion to the Inspector-Generalship, and held the post till the end of the year The charge of the Northern Circle was held by the writer till the 2nd May 1913, and for the remainder of year Mr. H. H. Forteath was in charge. Mr. Haines relinquished charge of the Southern Circle on the 10th April 1913, on which date he proceeded on combined leave and was succeeded by Mr. Trafford, who remained in charge of the Circle during the

remainder of the year. Mr. Blunt was in charge of the Berar Circle throughout the year. No Imperial or Provincial Service Officer retired during the year, but Mr. Williamson, Deputy Conservator of Forests, was transferred to Assam to officiate as Conservator of that Province. He has since been granted combined leave with effect from the date of his relief in Assam.

The work of the subordinate staff appears to have been fairly good on the whole and the Chief Conservator is glad to note that several subordinates have been specially mentioned by the Conservator, Northern Circle. The Berar Conservator, however, states that there is great 100m for improvement, especially among the older subordinates. It is satisfactory to note that there was a further reduction in the percentage of punishments during the year, which was 15 against 18 in 1911-12. The proposals for the re-organization scheme referred to in the last year's review were returned by the Government for revision during the year and were re-submitted after the close of the year in so far as they relate to Forest Rangers and Forest Guards. All the Conservators have again brought to notice the inadequacy of the pay of the clerks in the lower grades and this matter is shortly to be enquired into.

The year was on the whole a healthy one, the mortality among the staff being 26 guards, one orderly and one Range clerk.

During the year the Narsinghpur Division was amalgamated with the Jubbulpore Division, and with the transfer of the Dhanwahi Range from Jubbulpore the Mandla Division was divided into two Divisions, North and South Mandla. These changes came into force with effect from the 1st April 1913 This re-distribution of areas should result in more efficient management.

during the year against 89 in the previous year. In addition 7 forest villages were started in the Northern Circle, while in the Balaghat Division of the Southern Circle 2 1yotwari villages were taken over by the Forest Department, the compensation paid being Rs. 5,827. In the same Circle 8 villages were acquired by exchange. As regards the forest villages in the Melghat the Conservator, Berar Circle, remarks that a very large part of the population of that tract are in a state of uncertainty as to their real wishes and intended movements. He observes that as the Forest Department depends entirely on the Korku population for the exploitation of forest produce, the early completion of the working-plan of the Melghat Division to lessen the restrictions necessarily imposed in the new reserves and to regularize their working is very necessary. The Chief Conservator trusts that the work will be expedited as much as possible.

Shooting Permits.—In all 748 shooting permits were issued during the year against 759 in the preceding year.

To give effect to the Government orders regarding the destruction of pig and nilgai 62 special permits were issued in the Akola Division of the Berar Circle and 111 pig and 99 nilgai were killed in that district. It is stated by the Conservator that a large number of licenses issued in the vicinity of Amraoti are used for the purpose of trade in meat and hides of game and to check this abuse and to prevent the total extinction of all game in this locality he suggests that the number of permits must be restricted in future.

The Agricultural Department continued the operations to catch the wild cattle in the Bhongaon Reserve, but they succeeded in capturing only 4 animals. The Conservator considers that the assistance of Phansi Pardhis should be obtained.

The relations between Forest and Revenue Officers were generally most satisfactory and several Deputy Commissioners have recorded appreciative remarks on the services of Divisional Forest Officers. There appears to have been some slight friction in Balaghat, but matters now appear to have been satisfactorily settled.

In the Melghat there was some antagonism between the subordinate revenue officials and the Forest Department. The Commissioner, Berar, however has taken action in the matter and it is hoped that the arrangements he has made will prevent any further difficulties. He has expressed some dissatisfaction at the manner in which the orders of the Administration in regard to the introduction of restrictions and other measures in the Melghat have been carried out. The Chief Conservator will enquire into the matter during the touring season.

PACHMARIII,

Dated the 26t1 November 1913.

M. HILL,

Chief Conservator of Forests,

Central Provinces.

Govt Press, Nagpur -No. 1175, Forests-5 2-14-405.

## ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved and Unclassed State Forest and Waste Lands during the year 1912-13

Division	Range	Caval Digitalet	Name of Forest.	Area on 18	t July 1912.	Added dur- jing the year.	Excluded or trans- ferred to other heads	Area on 30t	h June 1913	No. and date of Notification of addition of trans- fer, etc.	Remarks.
		or Territory.		Acres	Equivalent in square miles.	Acres	Acres.	Acres	Equivalent in square miles.	addition or trans- fer, etc.	
\$		3	4	5	6	,	8	9	10	11	18
NUR- 1HERN CIRCLE						Raserved A c					
Mandia (28 it stood prior to 1st April 1913):		Mandia	Chabi Block No 53	2,7/5 889	4	\$	. 5	2,280	4		Correction of area in accordance with the figures of Forest surveys.
	Motiusla	Dø.	Lurina , 56  Belpani , 60	968 29,564	46		96 <b>8</b> 28	29,542	ţe.		Excluded being part of Samans malguzan.  Out of 22 acres an area of 10 acres
			Remainder of A Class	1,008,034	1,716			1,098 034	1,716		Out of 22 acres at area of 29 acres excluded which was omitted last year and 3 acres which was wrong ly added last year.
			Total A Class				995	1,130,740	1,767		
						8-1	Class.				
			Total B-I Class	\$ t3,824	801			513,814	801		
		711	Istal tor Division	1,645,554	2,571	5	995	1,644,564	3,570		
Jubbulpone and Nar- noghpur (2s they	Dhanwahi.	. Mandia	Bamn, Block No 49	732		A CL		751	1		Area over looks by the Survey Party heace tochided it the Regarde.
sioghpur (26 they stood prior to 1st Apri 1917)		Mandla and Jubbulpore	Remainder of A Class	3,1,439	\$18			331,432	\$18		
			Jubbulpore Fotal A	334,164	519	01.	201	332,184	\$19		
		Narsingh-	Naru nghpur Iotal A Class.	159,392	145	,,,	"	159,398	249		
			Total for Jubbulpore and Nameinghpur Divi- appres.	491,516	768	20	Ne	491,576	768		
							d Clau				
Dameh ,	South Western.	Demob	Hapmathago. Block No 64 Gopalpura , 65	19,764 718		ł	90			Notification No Season August 1919	Disforested,
		1	Balwa 10 67	9,943	16	So	•••	16,03	16	Notification No 650, dated the soti	Afforested.
			Bemainder of A Class	485,318	715			485.318	758	1	•
			Total A class *	506,743	18:	80	80	506,74	799		
			Total for Division .	106 74:	15	2 10	ę.	\$06,74	3 792		

## ANNUAL FORM No. 7—[PRESCRIBED].—Area of Reserved and Unclassed State Forest and Waste Lands during the year 1912-13.—(Contd.)

		Civil	Name of Paragraph	Arca on 18	st July 1912	Added dur ing the year.	I xcluded or trans- ferred to other heads	Area on 30th	June 191,	No. and date of Notification of	Remarks
División	Rauge,	District or Perritory	N ime of Forest	Acre .	Equivalent in square miles	Actes	Acres	Acres	Equivalent in square miles.	addition or trans fer, etc	
I	2	3	4	5	6	7	8	9	10	11	12
NOR- THERN CIRCLE (Oontd.)		_				Reserve	Foreste		   		_
Saugor	Banda	Saugor	Sigdoni, Black No 1				67	351*88	**	Notification No.  \$32 dated the 23rd  July 1912  Notification No.	
			Chauki " i	12 355	I		3 19	35, 60		880, dated the 24th October 1912	
			Dulclipni "	22,075	35	13,46	31 46	22,057	15	Notification No 421, dated the soth June 1912.	
										Notification No 422 dated the 26th June 1912	
	Khural .	Do.	Bandri, Fast ,,	98 3.567	6	-82	1-86	3,565 96	6	Notification No. 452, deted the 4th July 1912.	
										Notification No 423, dated the 4th July 912.	
			Bandri, West ,,	97 3,938	•		23 30	3,804*70	6		
						3 86	17 97	h		Notification No 949, date the 14th November 1912,	
										Notifica ion No 952, dated the 14th Nevember 1912	
			Barodias ,,	89 5,575	\$	9 10	3'76	1,366.60	5	Notification No 950, detail the 11th Nevember 1912	1
										Notification No 95, dated the 14th November 1912.	
						3 89	2 5:			Notification No. 941, dited the 14th November 1912	
										Notification No. 954, dated the 14th November 1 912.	
	Rehli	Do .	Mobil	7 20,19	3	2 60		76 )	. 32	Notification No	
							*41	18)		Notification No	*Excluded due to correction of area.
			Baleh ,,	8 35,73	5 3	7	8 71	36,726 2	57		
			Dew zipanı "	9 19,76		0 28	,	6 12,758 80	30		
										Notification No. 428, dated the 20th June 1913	
		1	Sondo: ,,	11 1,60	0	5 440	47 8	o 1,646-60			1
		ì								Notification No 562, dated the said August 1912,	
			Murga 19	14 58		9'50	1	\$76 50	,		
										Notification No	
			Abehand	15 13,66	31	J .	1	13,807 10	,	Notification No	
			Abenana ,,	15 13,66c		13.66	65 3		3 35	Notification No. 033, dated the and November 1912.	
			Chéola ,	22 1,55.		,	12	1 1,413		1	

Division.	Range.	Civil District	Name of I orest,	Area on 15	t Jay 1912	Added dur- ing the vear	Lacluded of trans- fured to other heads	Area on 30th	h June 1913	No and date of Notification of	Remarke.
		Territory		Acres	Equivalent in square miles.	Acrc,	Acres.	Acres	Fquivalent in square miles.	addition of trans- fer, etc	NGHAI NE
I	2	1	4	· '	6	7	š	9	10	1)	15
NOR- THERN CIRCLE — (Contd.)							Forcers.				
Saugor	Saugor	Saugor	Bishanpur, Block 43	418	1	3 20	6 70	414 50	r	Notification No. 841 dated the 16th October 1912	
					   					Notification No. 842, dated the 16th October 912,	
			Jalsinghnagar East, Block (vu 44	1,104	,	15 03	42 82	1,1176 21	3	Notification No 841 dated the 16th October 1912-	1
										Notification No 842, dated the 16th October 1912	
			Gondai ,, 45	233		.16	24	931 92		Notification No. 841, dated the 16th October 1912.  Notification No.	
			Keslon ,, 47	925	,	9 15	10 03	924 13	,	Notification No. B42, dated the roth October 1912 Notification No B43, dated the roth	
										845, dated the roth October 1912 Notification No. 842, dated the 16th October 1912.	
			Barkheri 1, 48	163		<b>1</b> 11	*30	169 70		Notification No	
			Jassinghungar West, Block No. 50	1,676	,	14'10	, ,33	r,689 B7	3	October 1912.  Notification No 841, dated the 16th	
	] ]									October 1913 Notification No 842 dated the 16th October 1912	
			Rапірція "б9	840		3 33	2'78	839*54	1	Notification No. 454, dated the 4th July 1912.	
										Notefication No 455 dated the 4th July 1912.	1
			Amakhurd " 63	880	,		18	862	1	Notification No. 184, dated the 17th February 1913.	
			Bahadarpor ,, 75	7,817	13	6 34	10 24	<b>∮8°13</b>	13	416, dated the sist	{
						76				Notification No. 417, dated the 218t June 1912. Notification No.	
			Rahatgarh ,, 76	5,505	, m	*19	7s † 464		8	Not heation No. 423, dated the 24th June 1912. Notification No.	* Correction of a
										424, dated the 24th June 1912	in accordance the figorest surveys
;				-		722	r6'3.			Notification No. 529, dated the 20th July 1912.	formed into separate big owing to the d forestment of
,						1				Notification No. 230, dated the 20th Joly 1913.	ar ea of 72 acres.
			,, 15·A		***	464	444	464	1	†a	New block as y
	Deors	Do,	Benswahi 37 S	6,467	19	*	<b>₹7'60</b> •	63419 to	16	Notification No. 2960, dated the 6th September 1896.	This area thou disformated in the form at the town at the tume.

Di vision.	Range.	Civil District	Name of Forest	Area on 15	t [ul} 1913, s	Added dur- ing the year	Fxcluded or trans- ferred to other heads.	Area on 30t	h June 1913.	No, and date of Notification of addition or trans- fer, etc.	Romarks.
		er 1 erritorv		Acres.	Lquivalent in square miles.	Acres	Aues.	Acres	Equivalent in square miles.	fer, étc.	
1	2	3	4	5	6	7	8	9	to	11	13
NOR- THERN CIRCLE.— (Conclá.)						Reserved A G					
Saugor	Deeri .	Saugor	Hathkoli Bleck No 27	8,607	14		21*26	8,585 74	14	Notification No 916, dated the and November 1912.	
			Naharman ,, 36	5,538	ś		*37	3.237 h3	5	Notification No. 880, dated the 24th October 1913	
			Remainder of A Class	321,705	505		,	323,705	504		
			1otal A Class	482,318	754	739 01	1,319*30	481,738	753		
			Total for Devision	482,318	754	739 01	1,319 30	481,738	753		
W						1	class.				
Hoshang. abad.		Hoshang- abad.	Total A Class	601,157	939	<u> </u>	*	601, 57	939	ĺ	
			Total for Olvision	601,157	939	"		601,157	939		
	Chhanan					A 0	lass I			Nat Forton N	Park dad subjek se
., Mosc			Bijna, Block No. 11	27,561	43	"	17	27,544		Notification No. 4974, dated the 8th September 1902.	
	Dhuma .	Do .,	Dargarh North ,, 1-Q	z*191	,	***	41	1,130	2		Excluded: due to correction of bour dary line,
	Nerbudda	Do	Ghurwara ,, r-J Remainder of A Class	192 491,503	758	7		181 491,503			Do do.
			Total A Class	\$20,417	813	7	76	\$20,548	813		
			Total for Division	\$20,417	ģīs	7	76	520,348	B13		
						A 0	llass.				
Chhindware	Sillewani- gbat.	Chhindwara	Khadbelt, Block No. 105	61 <sub>1</sub> 483	95		204	61,278	95	Notification No 1197, dated the 18th December 1912	Disforested.
			Marksaur 2, 109	1,652	3	(a) 11	(b) 9	T,554	3	(a) Notification No. 395, dated the 12th June 1912.  (b) Notification No. 395, dated, the 11th June 1912.	> torest bonnois-
			Remainder of A Class	363,072	<b>£68</b>	···		365,072	<b>56</b> 8	June syxus	
			Total A Class	435,306	~ d65	11	913	436,004	666		
hhundwara	1	Chhindwara,	Total B-I Class •••	32,853	ģī		Class	<b>52,</b> 853	ġΣ		
			Total for Division	459,059	717	11	213	418,867	717		
			Reserved Forest, A	4,150,117	6,500	869	B,683	4,158,306	6,498		
			Reserved Forest, Bal Class.	545,677	854		• •	540,677	854		
3			Total for Northern	4,706,804	7,354	862	3,683	4704,983	7,352		

		Civil		Ana on 11t	July 1912.	Added during the vear	Excluded on transferred to other leads.	Area on goth	June 1913.	No and date of Noticetion of addition or	Remarls.
Division.	Range.	District or Territory.	Nama of Forest.	Acres.	Equivalent in square andes.	Acres.	Acres.	Acres.	Equivalent in square miles.	transfer, etc.	
1	2		4	5	6	7	8	9	10	11	12
	<u></u>					Reserved	Foreirs				
SOUTHE	RN CIRCLE	(Contd.)				В (	lass.				!
North Chanda.	Warora	Chanda .	Warora	9,184	15	416	5.095 3.674	415	1	Notification No 967, dated the 19th November 1912 and No 428, dated the 1st May 1913,	,
	Moharii		Moharlı .	13,841	#2	••	150 1 <sub>40</sub> 53	12,138	29	Notification No. 967, dated the 19th Nov- ember 1912, and No. 522, dated the gth June 1913.	
	Havell		Havch .	93 119	52	***	3,716 } 1,810 }	28,193	44	Do Do.	Disforested in cultivation,
	Brahmapu- 11.		Brahmapuri	24,973	38	***	550} 1,510}		go	Notification No. 967' dated the 19th November 1912, and No. 428, dated the 1st May 1913.	
	Gunjewahi .	146	Gunjewahi .	95,179	39	202	219 194	24,166	37	Notification No. 967 dated the 19th November 1912 and No. 522, dated the 9th June 1913.	
			Remainder	99,211	155	•••		99,211	155		
			Total E Class	205,507	331		18,471	187 036	292		
			Total for Division	915 241	1,430	788	18,471	B97,558	1,409		
		!				1	iass.				
South Chanda,	Ghot	Chanda	Ghot	94,01	147	228		94,242		Notification No. 55, dated the 15th January 1913.	li
	Mar- khanda.		Markhenda	144,764	226	*3,481	14,533	143,714	215	*Notification No. 55, dated the 15th January 1913. †Notification No. 55, dated the 15th	
	Sironcha,.	•	Stroncha	. 189,13	1 196	(a) 6,49; (b) 1,019		196,647	\$07	January 1913. (a) Secretariat No. 673 - XIV-5-36	
			Remainder	179,95	281	ets		179,955	281	(b) Notification No. 465, dated the 19th May 1013.	Simplification boundary w Ahiri Estate.
			Total A Class	1/9,95 607,86	<u> </u>		5 4,83	614,556	960	-	Ann Can
			JUEN A CHEST		350		1				<u> </u>
Đơ,	Markh audi	Chanda	Markhanda	38,47	3 60		S Class.	39,088	61	Notification No. 55, dated the 15th January 1913.	
	Dhaba .		Dhaba	23,49	33		7,74	5 15,688	g .	Notification No. 506 dated the 19th July 1912.	
	Strongha.	44	Stroocha	, 42,4	58 6	6	6,49	35,991	5	1.	
	4		Remainder	192,3	79 19			132,37	9 19	ı	
		1	Total B Class	226,7	75 35		15 14,94			i	
			Total for Division	. B34,6	35 1,30	4 11,8	18,77	73 827,70	2 1,35	-	
	t 1						A Glass.				Correction of a
Nagpu Wardh	r- Ariı	Wardha . Nagpur and	Dhanapur Remainder	453,6	· 1	7		2 4,34. 453,6	-	7 4.	Collection of 3
	1	Wardha.	1	1	1	I	1				I .

Division.	<b>n</b> .	Civil District		Alea on 18	t July 1912.	Added during the year	Excuded or transferred to other heads.	Area on 30t	lı June 1913.	No. and date of Notification of	
Dirision.	Range.	or Territory	Name of Forest	Acres	Equivalent in square miles,	Acres.	Acres.	Acres.	Equivalent in square miles.	addition or transfer, &c.	Remarks.
1	3	3	4	5	б	7	8	9	10	11	12
SOU	THERN CI	nei r				Reserved	Forests.	_			
	THEKN C					1	latt.				
Balaghat	ionawani,	Balaghot .	Lohagn	249	***	***	249			Notification No 881 dated the 24th October 1912.	Disforested for cu tivation.
			Sonawao:	61,010	gđ	30	the	61,040	96	dated the 4th January 1913,	Afforested to includ site of tank an rest-house,
	Dhansua	,	Nazul Forest		***	1,236	411	1,236	2	Notification No 200 dated the 18th March 1913.	Afforested for pre- servation of for ost.
	Bathar		Khalondi	21,184	.33	19*	58	21,126	33	Notification No. 85, dated the 21st January 1913.	1
			Sarekha	47:478	74	57	***	41,575	74	Notification No 83 dated the aist January 1913.	To effect cx-
				493,686	771	***	.,	493,686	771		
			Total for Division	623,607	974	1,325	307	6,14,623	976		
Blandete	Bawanthari	Bhandara,	Pannara ,,	405	1		7a16.	110	111	Notification No. 392, dated the rith	1
			Kumargaon	2,416	3	438	ate .	1,854	3	June 1912. Notification No. 398, dated the 11th	Do.
	Galkhuri		Umrjheri	19,001	45	*78	181	28,998	45	June 1912. Nutrifications Nos #488220d t480 dated	Correction of are a
	Partebgath.	Bhandara,,,	Buki Mendki	2,884	5	100	15	<b>3,</b> 869	5	the 17th July 1912 Notification No. 1905, dited the 17th	)
			Nawegaon	13,496	20	Mt	267	13,229	20	July 1912. Notification No. 490, dated the 17th	Do,
	1		Gumgaon Pipalgaon.	28,537	35	68	111	23,605	35	July 1912. Notification No. 400, dated the 17th July 1912.	
			Remainder .	266,901	416	, ,,,		265,901	416	July 1912.	,
			Total A Class	305,640	514	584	768	335,456	524		
Do,	Do	Do,		<b>5,47</b> 9	9	8 C	Tass.	<b>5,47</b> 9	9		
		l	Total B Class	5.479	9	111	*11	5,479	9		
			Total for Division	341,119	533	584	768	340 935	533		Y
Bilaspur .	East Lor- ml.	Bilaspur	Kon	6,524	10	*18	<i>ы</i> н, †4	6,528	10	*Notification No. 477, dated the 5th May	1
	West Lormi,	500	Deveara	30,024	47	*1	<b>†</b> 3	30,033	47	1913. Notification No.	To rectify hour
	Kuasat.		Salangi Gatwa	33,883	53	•••	12	33,882		430, dated the 6th	> daries in accord
	Kuajati Pantora,		Ramannjas	481	1	771	\$	476	1	May 1913 Notlification No. 242, dated the 3rd March 1913.	
į				354,297	£54	m	ç10	354,297	\$54		د
			Total for Division	415,20g	665	t9	23	425,505	665		
North- Chanda.	Gunjewahi,	Chanda	Gunjewahi	115,108	180	# 00 60 118	lán,	115,896	ığı	Notification Nos. 525, 526 and 527, dated the 10th	Reafforested is It clude area unde Itrigation Depart
	ĺ		Remainder	\$94,62A	929	10		594.626		June 1913.	ifrigation Depart
		- 1			7-7	1	1	3976030	gag		

		Civil District	No. of Francis	Area on 18	t July 1912	Added during the year,	Excluded or transferred to other head.	Arca on 30t	h June 1913	No. and date of Notification of	
Division,	Range	or lerritory,	Name of Forest.	Acres	Fqois ilent in squire niles	Acies	Acres.	Acres	Equivalent in square miles.	additi n or transfer, cir.	Remarks.
	3	3	4	5	6	7	8	9	10	tī	13
						Reservat	FORFET-				
					,	. A.C	iass.		,		
Raipu	Sihawa, North,	Raipur .	Sihawa, North	T48,/77	232		1,604	147 173	230	Notification No 72 ditted the 3rd Sep fumber 1912	
	Sih iwa, South,		Sihawa Soutli	159,961	250	1,601	***	161,465	253	Notification No. 723, dated the 3rd Sep leinber 1912	To effect ex-
			Remainder	\$71 003	<b>6</b> 9 <b>8</b>			\$74,603	<b>გ</b> ე8		
			Total for Division ,	883 211	1,380	1,504	1,604	883,241	1,380		
			Reserved Forest, A	4,043,255	6,318	15,543	7,235	4,051,563	6,331		
			Reserved Forests, B	437,759	684	615	32,713	4,05,561	634		
			IGIAL SOUTHFIA CIRCLE	4, 183,014	7 002	16,158	39,048	4,457,224	6,965		
:					Reserved	FORFSTS UN DEPART	DER THE IRR	HOITAGE			
						A Cli	ut.				
Balaghat	Sonawani	Balaghat	Sonawani .	86	***	159	" ]			Notification No 3002, dated the 1 th December 3912.	Transferred from charge of Forest Department for the following works — Kataughen Jank.
	•					123	" }	747	1	Notification No. 1093, dated the 11th December	Chapanala
						o 25	•••			Notification No 62, dated the 16th January 1913.	Jamunia "
						350	3			Notification No. 192, dated the 18th Pebruary 1913,	Sarati Nala ,,
	Barhar	Pos	Sarekha	34	••	94		\$8	***	Notification No. 47, dated the 15th January 1923,	Kulrı Nala "
			Bhanrapahar	***	141	23	100	23	119	Notification No 2001, dited the 28th November 1912	Jagla "
į			Remainder	100				100		19.2	
	110		Total for Division	220		707	70	927	t		
ĵ						A	Class				
Bhandara	149	Bhandara		637	1			637	1		
			Total for Division .	637	1			637			
						<b>∆</b> Ci	ust.				
North- Chanda.	Mohauli Havell .	Chanda	Moharit ,	3,056	3	66	"	2,072 67	3		Naleswar Tank.
	Brahma-		Brahmapu-;	4,794	8	8	""	4,803		i	Ghorajheri "
	Gunjowahl		Gunjewahi	2,328	4	788		3,116	5		Asola Mendha ,.
			Total A Class	9,189	15	858	100	10,057	18	]	
						ВС	lan.				
North- Chanda.	Moharii	Ghanda		( 	1	1	,,,,	,	,		
	}		Total B Class						440		
			Potal for Division ,	9,191	1.5	866	***	10,049	16		

		( 1 Di iu		Acani	ji k r	Adlid liigh sen	Falikl r trin fe relto other leal	Ater on 3 (	h June 1911	No and date of Notaca on of	Remarks
D heion,	Iιι	fernite iv	λ hme of Lare t	Act s	mel tr	Actes	Auu,	Acres	Fgu i ilent in « ju uc mile»	addition or transfer, &c.	Kelluras
ı	2	3	4	Ś	,	7		9	10	Ta	12
SOUFII- FRN FR( LI (Ceneid.)	-			R.	агруво Горв	ers veder t		ON DEIAR M	LNT		
South Chanda	Dhaba	Chanda	Total for Division	13				13		J	
Raipur	Balod	Drug	Total for Division	1°6 586	1	4	lass.	486 580	î		
			Total under the Irrigation Department.  A Class "B Class "		17	15 S		12,207	19		
			Grand Potal .	10 647	17	1,975	PUBLIC W	12,722	Ig		
Bhandara		Bhandara .	***	81		A	Class.	8:			
			Total for Latelon	81		40	i.	81	***		
North Chanda,	Havell Moharh	Chands .	Havell	-		77 15		117	44 841	}	For quartying par
			Total for Division	40		92	Class.	132	949		
South Chands,	***	Chanda	Fotal & Cluss .	151		<u></u>		ışı Ist			
Do.	eei	Chanda ,		197		B	Člass	187			
			Total B Class .	187	610			187 338			
						A	Class.				
Nagpur Wardha,		Nagpur and Wardha.	Total for Dayssion	199		.,	,	139	ef4		
			Total under the Public Works Department.								
			A Cique B Cique	(04 187	3	52 		496 187	ī		
			Grand Total	<b>£</b> gI	1	92		683	1	,	

		Ci I Di trat		ไม่ กฤการเ	t fil igi	A ldc.1 1 ung th ten.	I reliated or trans for a I to other heads	lict Nool	h June 1713.	No und date of Notification of	
Division	Kinge	al Icini m	P me of Puc t	Acı s	ો ગુગરગીઓ કાંગ્યું કે કે ગુપાર ગુપાર	Acre	ALTC	Асич.	l pur dent miles	additi n oi rinster, &c	Remarks.
I	2	3	4	5	6	7	8	9	10	II	12
BFRAR CIKCI L						Risitvia					
Velghat		Am iri	All I at 9t	, [2 972	1,862	10	ısı	13, ^	1,161		
_		1	l neus Palul bu	, (1	11	654		,746	13	No. 183 and 190. dated the 17th Feb-	Trinsferred from
		1)0								roary .01,	
Amraoti .		170				1					
1		1	All oth r l oren s	2) 1-1	45			19,741	46		
			<b>ፒ</b> ነ <b>ገ</b>	²0, ta	57	(94		37 (1)0	58		
Buldana		Buldana {	Gra Mile, and South	51,)	8,	8		56 g yn 95 435	150	No 316, dile, the 13th April 191	Afforest.d.
		(	leto1	151,355	9	— <u> </u>		153,475	230		
		1	Gonlaulre	1 3,409			30	30,,50	0,	No 149, dated the	Correction of areas
<b>Y</b> cotmal		Yuotmal {	Dhy 41	6,\$ I	tt	59		6,8,0	ir	No 377, dated the	h
# coturar	ļ	1.00000	Ganganmal	8,500	14	27		P 527	1.5	No. 372, dated the	Afforested,
			All other I greats	07 195	450			0 (95	180	9th April 1913.	<b>1</b>
			[otal	212 225	5 5	86	21	74 ,3)I	535		
		1	Medsi	′ <sup>3</sup> 3~	11	23		6,5 a	11	No 167, dated the 1th April 1914.	Afforested.
			Chikalwai	∿1 RIO	34	6	50	21,,69	31	No 170 disted the	J'ill Diepted.
										No 131 date 1 the 9th April 1913	Di .forested.
Akola		\Lol1	Patur	*1,105	17	,		11,112	17	No 36%, lated the	
			Varaona Babut Pan	1 82-	3		2	165	3	No tout, dried the	Disforested.
			All other Lore to	( 103	97	_		62 4ng	97	1917,	
			lolal	101 (0"	162	48	52	103,959	163		
		K.	Grant 1 tot of (1)	1,178 gcc	\$,1 4	8;8	72	1 ,/9,76,	9,155		
						יז	lui.		1		
Melghat .		Amr jots	Ali Lorests	3,592				3,592	6		İ
Amrioti		Dσ	Do .	₹₹,५१९	19			11,585	15		İ
Buldana	•	Buldana	Do.	5,619	9		"	5,619	9	1	
Yestmal Akala		Yeotmal Akola	Do Do,	19 440	30			19,149	30		
***************************************	•	Anna	Grand Total of Class B	11,470 51,715	84	- ÷-		13,470 \$3,715	84		
			in Bitar.	<b></b>	ļ		<u> </u>	<u> </u>		-	
						C	Class. 64 (a)	ļ,			
Amraoti	***	Amraoti	All Forests	115,710	178	}	8,051 (b)	104,972	164	(a) Nos 189 and 190 dried the 17th February	Transferred to A.
										1913	}
				•						(b) Nos 185 to 188 disk d the 17th Febra 113 1318	Disforested.
Buldana .	"	Buldana .	All I orests	126,661	198	244 (f)	11,026	115,879	191	(c) No 1143, ditted the 17th July 1912	,
										Nos 643 to 647	
										August 1913.	Distorested,
								]		No 397, dated the 19th April 1913.	b

دریانیهاهای و ا	opidar Vidalek Di	Cni	NCM PT. SERVICE ONLY WASHINGTON	Λι ι ι		Allel L L	Ixtule!  (time trit onle hel	1 10 1	1(1 11 <b>[</b> d	No a litacof	and and addresses. The
Dat of	12,	Ditit Ter i v	Km ilrt	A rc	l punk t pu mi	, ,	\	A	livalt msitu miu	Valuation to the transt , L	Rema l
1	3	3	1	\$	6	7	8	9	to	11	13
filk 1K Circii — Coi ij					F	L RIED LOS		71)			
						( )	- (oatl)				
Peotii il		Yeotinal	All Eo cots	40 }1	6 {	()\$ 14	} (f 3 1	ui, 3	Clo	() New 1 11 Col	Corr ctum if ares.
								:		Nose to the second	J
			1							the vit junc	It ineferred from Akola Divis on.
										(f) Nrs 18 1 lo drid til fti Jimur 1 1913	Ce section of area.
Akela		Akola	All I mests	Fg 08a	1 10	(L) 12	3 / 10	80 501	1 0	N 44) Intel the 13th May 191 (1 No 109 daile	Aff ic tel
							_			tle oth April	
							211			No gringer in tel ile and Ap II	fr in teried to Bul-
							\$ 514		н	1 th July 1)12	in a Division I consecued to Yeot- m d Division.
			Grand total of the	37,04	1 199	6,017	71,103	11 798	E,117	arst june sys	200
						D (	lars				
Yeotman . Alola		Ycotmai Akola	All Fore to	g 7gt 1° >	15 1)		6,,60	9611 5 °5	15 9	No 407 mil 408, dit i the 22nd	Disforested
			Cr n! letti of (la s D							Aplria 2200	
			Commit Potal of all Chases		34 7	6,405	6,760 36,005	15 1 G 103,455	3,78)		
Nim^r	Suraji	Nmar	in Belar Sing ji	91,174	33		208	71,2(6	3.	loct Sitves	Due to concetton of
			Other I orests	40,21}	rs			40 279	63	lett r Nr j d tel th 15th April 1917,	
			Tetal Raupe	61,703	95		*oR	61 4 <b>9</b> 5	gs		
	Paplod	D <sub>0</sub> .	Goga pur	8 116	13	1,30,	,	9,420	15	lount Surveys Litter No 1017 d tad the oth	(onci tion of area
			Bhainea			51,764		ğı 26‡	80	Austriz No 519 G-573, dated the 8th	
			Jho'pura and Dongaria, Oth 1 Fo ests	11G 4	182	9 407	***	3,4 <b>9</b> 7 1 ( <sub>3</sub> 45)	5 182	July 191	Di Ata / La rage
			Total Range	12, 570	194	55,975		190 545	282		
	Chardni	Pa.	Ави	70 947	111	677		7 : 524	113	Porcest Survey's letter No 1017, diled the 10th August 1911	C rectun of area
										(b) No 1119 G-47 dated the 8th July 1317	3, In malerred from Bhunsa Range.
			Mandwa	•		(Å) 47.034	(f) an	47,219	74	(f) l orest Surey's letter No 1141, dated the 12th September	Conceinon of trea,
13			Other Poresis	121,74/	190	<b>AP</b> 7		120,357	180	J zgrż.	
apolitica de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de			Total Range .	192,304	301	47,811	22	340'003	\$76		

Division	Pai	Livi District or le ritore	N n fler i	År 11	t <b>j</b> 3 13t	Alil din de scai	I his is at he fer it other in	Arı p	th France	N ild to f N til t u i ilt i	l cm 1
				Ver	Ljuvlut i G mik	A	<b>A</b> 1	۸ ۴	I fird of a struc mk		
3		1	4		6			9	10	21	22
BI KAK CIR( I I (Corck )					Rif	inlesi   1 (1	— Lo til				
Nimui .	Bhun 1	Nimi	I hainsa	41.*(1 3.10	o 5		51,26f			No (r) G ,73 dil lile 8th Jih 1912	Fra stated to In
			Man h	1 1 -			17,°31				Finnsferred Chandal Range,
	Other	Do	lotal Raige Alletter Lorest	5 C 546	15)	_ ~ _	1L 30,	3 ( 84	,		
Petu	Rangur	Petni	1 tal Divi i ic	17/00	13( 3	10, °6		70 5 °I	I (\$)		
ŀ	122.111		Lodhako Pah Hera	27'5 121 <sub>3</sub> 0	13 4 1g	149	19,1	4 01		* Scorts sat iciler	Iransferied fro
			Uran Ladi	∘8¶ ^c,° 7	47	3	101	2(1 0,136	r) H	N 910-XIV 553 det I the and November 5 1912	13.1
			J i ui Bichwa Pastal i	13 106	1		2 4	101 1031	1 2	the 11th July 1 12	D storested.
			Do law ini Other Forests	22 3	35	11		11 2 ,1 3	34		
			lot d Rาแระ	g( Sm)	151	*r 149	13 59/	9570	119		
	Asu ,	Do.	Parji Dhang	9a 145 rga	1	20	0	1 017	, 8 2	* Secretariat letter	fransferred from
			Gwara Dhapara	394 920	1	,,	g z	7°4 793	1	Fr, d ted the	D 4
			Amdhan i Saliwira	73 39/ 1, 90 1 7 °	3	6	31	7 765 1,696	175	the 11th July	Di salesme.
			Other I are ts Lotal Range	161,9	253	*.6	1144	1(1, 3			
	Snouligath	Dí	Phoplin (North) Gawassin	1 <sub>7</sub> \$19 19,76\$	#1 31	46 719		13 \$ 9 20,294	4 32	seri lited the	Iransfetred fior
			Chikhii	2,0/0	3		19	7,887		J 1917 No 164 dated the 11th July 1912	Digfore ited.
<b>Ģ</b>			Other lost to Total Range	51,713	138	754	<u>.90</u>	89 c71	139		
	l'apti	Do.	Pipiri Mohdu	25 °,7 25 93	40 †I	<b>\$</b> 7	<b>ک</b> ل	25 742 75 986	10   4 <sup>†</sup>	* Scrician it letter	Fransferred from
			Khamapui Chun	30, ] o 10,040	33	•	19 4	20,451 19,036	73 30	5.79 d ted the 21 d November 1912 * No 402, dited	n
			Nilgath Majirwani	11 503	13 18 98	13		5, 57 1,574 6,340	13 18 54	the 11th July	
			Cther Forests  Total Range	50 849 167 612	263	281	****	167 G3*	62		
	Dabl.	Do .	Piparia Kulapakhan	18,101 17,420	28 27	195		18 103 17,615	u8 17	Secreta it letter l No no-AlV- 553 dated the and November	It neferred from
			Patua	14,443	23		1	14 443	*3	) 1912	
			Sukhi	27,1 g 584	45 I		187 49	\$7,012 535	1	No 460, drien the rith July 1912	Disforested,
			Other Forests  Total Range	1,116 18,863	143	198	<b>#37</b>	1 116 ,6,831	11.	-	

## ANNUAL FORM NO. 7.—[PRESCRIBED].—. Irea of Reserved Forests, Protected Forests and Unclassed or Public Forests, Land and Leased Forests in 1912-13—(Concld.)

<b>D</b> 1318 c31	1 .	Civil Di trict Cr L r itory	ome old acco	lic on 1	Jedic z 1	Ald d Limit de yer	Ix hadd e tryn ferfel to mer herds	Azez n 30th June 1913		No. and data of Notification of addition or fransfer, etc.	Ri marks.
				Λιn	Igen Int au prac podes	lees	1er	Лися	Paus dent in san ire miks		
I .	7	3	1	3	,	7	S	9	10	11	12
BTRAR CIKCLL,- (Concid )						p					
Betal	Sucilmen- dhu	Re'ni	San dimeo lha Kal dipan Dhaba Dio al	20,111 9,°17 5,705 23 °05 8,862	92 15 9 36 14	6		16,779 9,781 5,755 15, 01 8,614	36 13 9 36	Secretarni letter N. 910—XIV- 5 33, dated the and November 1013.  No 467, dated the rith July	в-і.
	Bhawan	Dr.	Other I prests  Fot al Range All ther I prest.	2,973 70751 9,731	5 111 140	*6	+1,-97	5,90° 67,364 9°,738	105	1917.	
			Total Division  Let 1 \( \text{Circs in Ni nii} \)  101 \( \text{tipl b tipl} \)	,C0,263	1,168	2 50. 100,2 [8	6 033 10 ,767	75(,101 1,531,911	1,181 2,367		
Aimre	All Range	None	All Force to	აცე,ებე	260	Klaeivid (An				Nos got and got, dited the obti	Diefolcated
eenu ir	An it inge	Million .	Ical Dass n	zuq,95;	266		450			Octobu 1912.	Correction of area,
Betul ,	Do.	Betai	All Ferests	76,919	120	(3 18	163,059 (69 *94) -,5113	4,981	8	Nos 462 to 467, defed the 11th July 1912,	
					į					Secretarist letter No 910-XIV-5- 53, until the 200 November 1912.	Transferred to f
		1	lotal Division	76,919	120	18	71,056	1 10,1	8		(lan)
			Inlet of Def Cire in Nimmi and Betal		350	18	2:1:9 15	1 081	8		
			I ot al of all clarse i m Num n nod Betul.		3,25/	100,366	35 >,712	1,8 9 595	3,875		
			Grand Total of ilela e	4 2 6,8 6	6,(92	117,071	396,717	4,003,750	0,155		
			GAIND IDIAL OF CON-	17,105,634	21,038	1 30,291	4" >,30	13,165,557	27,473		

FORM No. 8.

				Areas fin	ally settled during	; the vear.		
Name of Forest Division,	Name of Civil Divites	COMMENCE-	No and date of Government			Expenditure in the year on a	curred during reas finally ed.	Lutire cost pe
		ment of the veir	order accord- ing first sinc- tion to the settlement.	Name of forest settled	Area in square miles,	In forest accounts	In other accounts,	Luture cost pe square mile of area finally settled during the year
I	1	J	4	\$	б	7	8	,
NORTHERN CIRCLE		Sq. ms				Rs	Rs.	R4,
Iandla	Mandlı .	2,570	144	***				
as it stood prior to est April 1913)								
ubbulpore "	. Jubbulpore	345	***		***		***	848
	Mandla	174	<b></b>	. •		"	•	
as they stood puor to 1st April 1913.	Narsinghpur	249		***	,			
	Damoh	792	Notification No. 649, dated the 20th August 1912.			***	410	•••
***				*>*	144		***	,
Saugor	Saugor	753	Notification No. 423, dated the 26th June 1912.	Rahatgarh	13			***
			Notification No. 454, dated the 4th July 1912.	Ranipura	'005			
•			Notification No 416, dated the 21st June 1912.	Bîlaspur	010	.,,		
		Andreas (Alberta)	Notification No 425, dated the 26th June 1912.	Parasia	'015		***	**
			Notification No. 118, dated the 31st January	Hardua	'11	,,,,	•••	

ŧ

At comm	enceme year.	ent of the	T iken in hand i year	ning the	Expenditus during the andergoing	re incurred year on areas ; settlement,	Remarks.
Name of tract	L	Area in squ ne mies.	Name of tract	Arta in square miles,	In forest accounts.	In other	·
IO		11	I.S	13	14	15	16
					Rs	Rs	
Harratola		'22	Kanchanpm	. 04			<u>}</u>
Chatra	•**	120	Dyrri-Mahqaon	43			
Simaria	•••	.08	Patha-Deaogaon	30	***		
)udhari		'003	Dalka-Sarai	. '15			Notification No. 718, dated the 12th
Anjhwar	•••	600 ن	Rakaria	·8o			September 1912.
Sarangpur		<b>o</b> 8	Indra .	'45	**		
Ganwahi	•••	'12	Mohgaon alsas Padmi	. 77	,,,,	411	J
Kudi	•••	<b>'</b> 49	***	444	••	•••	
Hinota	•••	·43	"	•••	34		
Salaiya	414	<b>'</b> 04	***	(**		***	
Seoni	***	*35	141	•••		***	
Batondha	***	.38	***	***	***	••	
Mehandwani	••	'25	141			***	
Barkhera	141	103			***	•••	
Aherwara	•••	*09		•••			
Samnapur		-26	144		***	,,,	
			111	***	•"	***	
Salaiya		'13	11.0	***		•••	·
Pipıa		603	Sajpani .	'42	***,	•••	Notification No. 648, dated the 20th August 1912.
Rahatgarh		'12	Menadhana .	'02		***	Do. No. 879, dated the 24th October 1912.
Rampura	***	*005	Mohandra	'03		•4•	Do. No. 882, de.
Bilaspur	•••	.010	Nankpu	200			Do. No. 917, dated the 2n November 1912.
Parsia	•••	'015	Lohra	'04	•••		Do. No. 1600, dated the 26th November 1912.
Hardva	••	11.	Binnai	'34		464	Do. No. 1, dated the and January 1913.

1				Areas final	y settled	during th	e year.		
		Area already settled at	No and date				Expenditure in the year on at settle	inited during leas finally d,	Entire cost P
Name of Forest Division,	Name of Coul D street or Territory	settled at commence- ment of the year	of Government order accord- ing hings sanc- tion to the settlement.	Name of forest settled.	Are: sqn	n in lare leg,	In forest actounts.	In other	square mile area finally settled during the year.
1			4	5		6	7	i	,
NORTHERN		Sq ms			- <del>-</del>   		Rs	Rs.	R
CIRCLE— (Contd.) Saugor—(Concld.)			Notificaltio No 427, dated the 26th June 1912.	n Garh Simaila		1004	***	•••	
			Notificatio No. 528, dated the 20th July 1912.	n Shikarpur		100.	•••	920	
			Notificatio No 841, dated t 16th Octobe	1161		-06			
			Notification No. 452, dated to 4th July 1912.	n Netua the	445	001		490	
			Notificati No. 561, dated 2nd August 19	Tanda		.oog			•
			Not: ficati No. 932, dated and Nove mb	on Marpani the e 1		*02		***	
			Notificati No 956, dated 14th Novem	LUCI	•	101	<b>,</b>	800	
			1	on Marawan Paik		<b>°0</b> 0	6	***	
į.			1	on Baroida Kalan	• •	<b>'00</b>	4	***	
,				ı o n d the	•••	•		••	

At communicement year.  Name of tract.  To  Garh Simaria	Area in square milea.	Taken in hand year,  Name of tract,	dura	Area in square miles.	Expendituding the youndergoing In forest accounts.	ire incurrente ar on areas settlement,  In other accounts,	Remarks,
Garh Simaria	milea.	12			accouots.	accounts.	
Garh Simaria				13	14	• *	
		Barethi		ı		.3	16
		Barethi			Rs	Rs.	
Hakat pur .	. 110		•••	15		•••	Notification No. 110, dated the 29th January 1913.
		Malthon	•••	'72	•	9.44	Do No. 220, dated the 26th February 1913.
Jaisinghnagar	. '06	Mohandra	**	.002	•••		Do. No 444, dated the 12th May 1913.
Netna	,001	Mirwasa	***	10,	•••	•••	Do No. 518, dated the 7th June 1913.
Tanda	*006	Khotala	**	800	•.•	• •	Do. No. 530, dated the 10th June 1913.
Marpani	'02	Nipania	•••	'02	108	,,,	Do. No. 532, do.
Kheia	'014	Pîprai		'002	***		Do. No 533, do
Marawan Pajk	1006	Bamhori	fac	.01	400	<b>581</b>	Do. No. 534, dated the 11th June 1913.
Barodia Kalan	'004	Sukalipur		.01	•••		Do. No. 581, dated the 24th June 1913.
Simatia Khurd	'02	Sipur	•••	03	***	***	Do. No. 582, do.
\$	109	Baghonia	***	ზინ	•••		Do. No. 583, do.
<b>\**</b>	***	Majhera	944	'04	ten.		Do. No. 584, do.
***	485	Chanari	•••		***	<b>***</b>	Do. No. 585, do.
a. (44	114	Dhaura					Do. No. 586, do.
Bo4	111	Chak Mundri		'007	***	610	Do. No. 587, do.
eis	ju t	Negawan	•••		***	•••	Do. No. 588, do.
***	•••	Kalwa	***		***		Do. No. 589, do.
814	***	Nimni	194	A 103			Do. No. 590, do.
••	441	Chak Chordhawai			24.	***	Bo. No. 591, do.
***		Mandni	540		A14 210	***	Do. No. 592, do.

				Areas unally	settled during	g the vear.		
Name of Forcet D vision	Name of Civil District	Area already settled at com- mencement of the	Number and date of Government order according 1 mai	Name of forest settled	Area in	Expenditure 1: the year ou set	neurre I during areas finally led	Entire cost per square m is of area finally
		year	sanct on to the settlement		s juarc miles	In forest aecounts	In other recounts	finally settled during the year,
1	1	3	4	ś	6	7	8	j
NORTHERN CIRCLE— (Concid	)	Sq ms				Rs.	Rs.	R5
Hoshangabad .	l.,	939	"	•	•	,	"	
Seon, .	Seoni .	813			***		••	
Chhindi un	Chhindwira	719	Notification No 306, dated the 11th June 1912	Barraghati	001			
	Total	7 352		110	0 546			
SOUTHERN CII CLE	₹-							
Balaghat	Balaghat	974	N'otification No 299, dated the 18th March 1913	Balaghat Nazul .	1,03	624		***
			Notification No 84 dited the 21st January 1913	· ·	009		ber	,,,
			Notification No 17, dated the 4th January 1913	Sonawani .	0.05	,		
					2 07			
Bhandara .	Bhandara	533	Notification No 398 dated the	Bandarewa	0 68	49	• 60	
					o 68			
Bilaspur	Bilaspur and Raipur (part)	665	Notification No 437 dited the 6th May 1913	Sheotarai Karpiha Darwaya	11	****	*	,,
					0 03			
Yorth Chanda	Chanda	1,430		400	•••	***	***	""

		Arcas undergoing settlement				
At commenceme, veri	nt of the	Taken in hand during	the year	Capenditure the Jear on ar settle	incurred during eas undergoing ment	Remarks.
Name of tract	Arca in aquate miles	Name of tract	Arca in aquare indes	In forest accounts	In other	
10	15	19	3	Iţ	12	r.G
				Rs	Rs	
Lotia	0.4			••		1
Lotia	24	Chhatarpur ind Kolopi- pirma	28			Notification No 109, dated the 29th
Deersquits	101	Pardhanghogri Gujarghat	20 <b>0</b> 8	·	•	Do No 150, dated the 6th February 1913
***************************************	3 845		6 142			! 
Definition of Manager Street		Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrews and Andrew			OTHER DESIGNATION OF THE PERSON	
Balaghat Nazul	1 93	Maldhat	0 64	••	****	Notification No. 219, dated the 26th February 1913, under Section 4 of the Indian Forest Act.
Korja	0'09	Sondhar	234		67,	Notification No. 528, dated the 10th June 1913 under Section 4 of the Indian Forest Act
Souawani	0 05		<b>\$</b> 45	•••	•••	
	2 07		2 98			
\$4a	B	Bandalew:	o 68	li e		Notification No. 659, dated the 15th luly 1911, under Section 4 of the Indian Forest Act.
			o 68			
Sheotaru, Karpu a Darwaza.	0 03	Rampur,Bandha	0,01	609	•	Notification No. 491, dated the 28th May 1913, under Section 4 of the Indian Forest Act
	0 03		001			
Khutunda 32 acres	0 05		49	***	240	
	0 05					

Name of Facts   Name of Canada   Name					Areas finally	settled during	the ven.		
Sq ma	Name of Forest Divisio	Name of Civil Distr or Territory	already settled at com- mencement of the	Number and date of Government order according final spaction to the	Name of forest settled.	square	the year oo settle	areas finally ed.	Entire cost per square mile of area inally settled during the year.
Sq ma									
Counter   Cite   Counter   1	3	3	4	· · · · · · · · · · · · · · · · · · ·	,	7	8	9	
Sated the 15th   Galaguats   0.46   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20			Sq ms.				R«•	Rs.	Rs.
Notification   Pataguram   0.65   0.04   0.02   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0.04   0	outh Chanda	Chanda		dated the 15th	Gularghain Pipri Bumhni Jakaipali Wakri Pidigundam Rith Khetni Machli Machligutta Nagalwahi Nakwana (part) Part Yelor Modampalli Rith	0 46 0 40 0 13 0 37 0 70 0 27 0 24 0 559 1 149 0 0 8	    	10 10 10 10 10 10 10 10 10 10 10 10 10 1	*** *** *** *** *** *** *** ***
No tific ation   No tific ation   Risghon and Karhai   2 31   No tific ation   No 364   No				Notification No. 465, dated the 19th May 1913.	Khargaon Rith Rangewahi Pataguram	0 34 0'28 0 65 0 48 0 46		11.	101
Drug	Nagpui Wardha 🔐	Nagpur Wardha	532 184	***				1	) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )
Total Southern Circle 7,002 174  Total Southern Circle 7,002 13 64 13 64	Raipur	Raipur	1,206	No. 723, dated the 3rd September	Risghon and Karhai .	. 2'51		***	
Total Southern Circle 7,002  BERAR CIRCLE.  Meighat Amraoth 1,167  Amraoth Do 258  Suldana Buldana 445  Notification No. 396, dated the 19th April 1913.  Notifications Nos. 372 and 373, dated the 9th April 1913.  Notifications Nos. 372 and 373, dated the 9th April 1913.  Notifications Nos. 372 and 373, dated the 9th April 1913.  Notifications Nos. 367 to 370, dated the 9th April 1913.  Notifications Nos. 367 to 370, dated the 9th April 1913.  Notifications Nos. 367 to 370, dated the 9th April 1913.  Notifications Nos. 367 to 370, dated the 9th April 1913.  Notifications Nos. 367 to 370, dated the 9th April 1913.  Notifications Nos. 367 to 370, dated the 9th April 1913.  Total Berar Circle 6,683		Drug	174		**4	251			<del>                                     </del>
Melghat	Total Sou	thein Circle	7,002						·
Amraoti Do 258	BERAR CIRCLE.				•	3.7			
Buldana Buldana 445 Notification No. 396, dated the 19th April 1913.  Yeotmal Yeotmal 1,217 Notifications A Class 013		. Amraon	1,167		110				
No. 396, dated the 19th April 1913.   Notifications Nos. 372 and 373, dated the 9th April 1913.   Notifications Nos. 372 and 373, dated the 9th April 1913.   A Class Nos. 367 to 370, dated the 9th April 1913.   Notifications Nos. 367 to 370, dated the 9th April 1913.   No. 367 to 370, dated the 9th April 1913.   No. 368   Nos. 367 to 370, dated the 9th April 1913.   No. 368   Nos. 367 to 370, dated the 9th April 1913.   No. 368   Nos. 367 to 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, dated the 9th April 1913.   No. 370, da	Amraoti	. Do.	258			"			
Akola Akola 342 Notifications A Class 006 006 006 006 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008 008	Buldana .	. Buldana	445	No. 396, dated the	A Class .	0'11		***	
Nos. 37 to 370, dated the 9th April 1913.  Nomar Nimar 1,949  Total Berar Circle 6,682	reotmal	Yeotmal	1,217	Nos. 372 and 373 dated the oth	A Class .	013	***		
Total Berar Circle 6,682			. 342	Nos. 367 to 370	C Class .	0100	1	ŀ	 is,
Total Berar Circle 6,682	Nimar	. Nimar	, t,949	414	•••		***	•••	
GUANT POPAL PAR CONTRACT DOOR	Hetul .	Betul	1,308		ben	eh.			407
GUANT POPAL PAR CONTRACT DOOR	To	al Berar Circle	6.682		1		1		1
INCES AND BERAN	Grand Total P	OR CENTRAL P		<b></b> }	, ,	Description, better Actual	4		

_			Areas undergoing se	ettlement.				
_	At commence men year	t of the	Taken in hs	end during t	he year.	the year on a	ncurred durii g reas undergoing ement.	Remar⊁s
-	Name of tract.	Area in square miles.	Name of trut		Area in squue miles	In forest account.	In other accounts.	
	10	11			13	14	15	16
					 	Rs.	Rs.	
G P B	dapur ularghata ipri amhni	0 50 0.46 0 40 0.43	** *** ***		446 	• • • • • • • • • • • • • • • • • • •		
PR	akaipali Vakri :digundam Rith (hetni fachli fachligutta Vagalwahı	0 37 0 36 0 27 0 24 0 59 1 49	*** ** ** ** ***		10 1 1 10 114	410	*** *** *** ***	
N P N O	Agawan lakwara (part) lakwara (part) lart Yelor Modampalli Rith longarpar Rith Khargaon Rith Rangewahi	80.0	988 948 944 944 944		410 40 400 400 100	* 1 *** *** ***		
	011 1 + 1 Mp	444	Pataguram Raiguran Pendlaya	***	0°65 0 48 0 46	***	• • •	Notification No. 668, dated the 23rd August 1912, under Section 4 of the Indian Forest Act.
	Kotwalbardi	6.76 oʻ01	Paoni		0 01		•••	Notification No. 564, dated the 6th August 1912, under Section 4 of the Indian Forest Act.
	Risgaon and Karha	0'd1	Madhoban		0.53	١,		Notification No. 531, dated the 10th June 1913, under Section 4 of the Indian Porest Act.
	101	2:51			0°22 5°49	-[		
<b>V</b>	***				***			
•	•••				***		"	
	A Class	0'11			·*• }			
	A Class	0'1	A Class C Class	***				Notifications Nos. 198 and 417, dated the 20th February and 24th Apri 1913, respectively, under Section 4 of the Indian Forest Act.
	A Class C Class	0 0	A Class B Class C Class	60 60-		2	1 200	Notifications Nos. 988 to 994, date the 25th November 1912, unde Section 4 of the Indian Forest Act.
	***		Ghogal Block	Antarma	7		1	Notification No 461, dated the 10 July 1912, under Section 4 of th Indian Forest Act.
	Nastrice of Markey Asymmetrical Persons	0';			7'4	19 -	.,	
	444	15'5			19:1:	22	214	

_	Len_th of boun lane	f ength of	I en_th of	Total les oth	I ength of	natural	Total length	Expenditure cation duri	e on demar ng the year.	
<b>D</b> it < 3	artificiali icm gente i icm, ti e jear	hound ric	chitug 10 m luric notrej usel	b m dries	Still to be	b undraes not requir- ing triberal marks	ins al the select of the select	On new worl	On 1cp3118	Remarks
1	2	1	-1	5	6	7	ь	9	10	11
	Miles	Miles	Miles	7'ıles	Miles	Miles	Miles	Rs	Rs.	
NOLTHERN CIRCLE			ļ							
Mandla <sup>1</sup>		2,053	324	2 377	***	259	2,636		2,617	* North and South Mandla excluding Dhanwahi Range,
Jubbulpore-Narsin, hpur		890	741	1,631		337	1,968	••	1 404	t Includes Dhar
Damoh .		649	747	1,396	••	361	1,757		2,060	wahi Range also.
Saugor	17	954	902	1,773		223	1,996	817	879	
Hoshangabad		98	402	500	440	45	545		306	
Seont		r,254	423	1,677	••	229	1,926	1	1,174	
Chhindwar i	r 17	139	1,416	1,572	***	18	1,590		37	No expenditure
Total Northern Circle	34	5,937	4,955	10,926	***	1,472	12,398	818	7,477	incurred
Southern circle		_		i i						
Balaghat .	1	373	893	1,067	***	119	1,386	72	1,141	
Bhandara	4	399	857	1,260	•••	235	1,395	37	294	
Balaspur		189	236	425	•••	148	573		125	
North-Chanda		1,105	966	2,071		230	2,301	***	2,739	
South-Chanda		762	10	772	**>	95	867	•••	1,340	Includes Rs. 11
Nagpur-Wardha		472	702	1,174	•••	107	1,281		1,644	spent on deman- cating plots to be surveyed,
Raipur		884	330	1,214	Pag .	126	1,340		971	
Total Southern Circle	5	4,184	3,994	8,183		960	9,143	59	8,254	
BERAR CIRCLE										
A Class Forest	4	69	192	265	165	179	бод	56	406	
Meighat { B do. do	***		12	13	E99		12	eij	431	
(C do. do .	***	***	***	410			145		.41	
Total .	4	69	204	277	165	179	621	56	406	
(A Class Forest,	., .,,	150	176	326	107	12	338	***	555	
Amraoti ,,, B do. do.		6a	4	64	APE	1	65	594	255	
C do. do.	h.,	100	3,031	3,131	bak.	17	3,148		267	,
Total .	na e46	310	3,211	3,521	649	30	3,551	,,,	1,077	

	I ength of hound trice	I ength of previously	I ength of	Total length of	I engin of boundaries	Langth of	lotal length of	Expenditure fron dum	on demarca-	
Diya 1011.	arthicially demare ted during the year	custing boundancs not re- paired	paned, not re- tenderes casting	munumus 1	still to be demarcate a at close of the year	honi danes not re- quiring artificial marks.	length of boundaries at the clo c of the year	On new york	Оп тераите	Remarks
1	2	3	4	5	б	7	8	9	10	11
-	Mıles.	Miles	Miles	Miles	Miles	Miles	Miles.	Rs	ks .	
A Cluss I orests		34	4 µ	475		15	490		299	
uldana . B do do,	***		36	36		•••	36		б	
(C do do	100	76	77	577	***		653		387	
Total	•••	110	1,054	1,164	,	15	1,179	•••	692	
A Clasa Forests.	•••	437	413	850	***	48	<b>8</b> 98	,,,	бо4	
B do. do	***	37	gı	128		***	128	70.	28	
C do do	414		4,329	4,329		٠	4,329	.,	39	
(D do. do	411		115	115	***		115			
Total		474	4,948	5,492	***	48	5,470	1,1	671	
(A Class Forests	144	129	600	729	***	11	740		542	
Akola B do, do		26	123	149			1 19	,,,	147	
C do. do					•••			3 00,	66	
Total .	104	<b>15</b> 5	723	878	• •	11	889		755	
Nimai A Class Forests		389	669	1,058	5	301	1,364	.,.	1,778	
Total	.,	389	669	1 058		30	1 1,36		1,778	
Betul A Class Forests		540	53		. 1	33	8 1,41	1	1,542	
, Total		549	55	4 1,10	4	34	1,45	0	1,542	
Grand Total Berar Circle		4 2,04	7 11,37	3 13,42	4 17	0 9	30 14,52	14	56 6,921	Rs. 6,977.
GRAND TOTAL FOR C P. A BERAR.	ND A	12,16	8 20,32	32,53	3 17	70 3,3	52 36,00	55 9	33 22,552	
N. B.—Boundaries incl. of sub-divisions, such as cor	ida, beside	s the onter	belimeler	the limits	of ancipen	rea of miv	ate or bihe	r lands wi	thin the forest	tot not the

													eyed and unde	
			Special sur Indi	sevs—Maps n Departmen	on 2" scale t or Forest S	oroser Survey B	hy Burver ranch.	οĒ	Ordinary m	cluded in Top	og•aphical r in Distric	Programme of t Surveys.	the Survey o	f Indla
Divis	tion,		With	interior detai	ils.	Bound	dary Surv	e) 1.	With	interior details		Bour	dary surveys.	
			Previous.	Of year.	Total Cost.	Pre-	Of year	Total cost	Previous.	Of year.	Total Cost.	Previous.	Of year.	Total Cost.
	1	- -	2	3	4	ś	6	,		9	10	11	12	13
		-	Sq. Ms.	Sq. Ma.	Rg.	Sq. Ms.	Sq. M .	Rs.	Sq. Ma.	Sq. Ma.	Rs.	Sq Ms.	Sq. Ms.	Rs.
Norther	N CIRCLE.	-												
Mandia*	••	-	†1 <b>,70</b> 9		94,301							53		•
Juhbulpose-Narsi	nghpur <b>i</b>	-	783		89,840		•••	.,,			***		•**	***
Damoh	u	$\cdot \mid$	791		3,13,429		-	a10	***	•••	.,	-		**
Saugor	***	"	753		79,030	-:	5**			111	•		•	••
Hoshangabad	100		7,211	٠.	18,873		***		***	•••	•			***
Scont	нь	1	827	,,,	60,146			•••	"	149	***	***		••
Chhindwara	•		712		49,185		***	100						
lota)	Northern Circle		6,787	***	6,03,804							53	· .	tte
Souther	RN CIRCLE.													
Balaghat	•••		954	,,,	45,963	-	***				***			694
Bhandara			\$33		36,822			-		.,	841			***
Bliaspur	***		б14	•••	42,549	-					**	***	"	***
North Chanda South Chanda	et 1	•	5,060	ool	86,999					,		••		•
Nagpur-Wardha			705		60,457									194
Raipur			1,386	884	1,03,818					•••	110	,,,		***
	l Southern Circle		7,168	**1	3,76,618	-		-		4.1	-			
		-					-	-				_		
	R CIRCLE.							}	-					
Meighat	***	**		**	1**	494	-	"	***	***				•••
Amraoti Bukkana	***	***	l	••		**	1		59		111	259		***
Yeoimai	14	•			140			1 "	""	154		159		20.256
Akala	419	•		***	***	***	1	461	608		6,76			20,366 3,086
Nimar	ans ls			**1	5 TO			-	101		-	529		
Betu) *		*		1	\$,300 30,750			***	**	-			40.6	***
						-					111			
	folal Berar Circle			***	15,46				748	37'	6,70	\$,0\$	985	23,44
Grand Total Vinces and	for Cretral Beray,	Pro	18,194	.,	10,65,88	6	.   1,504	***	748	375	G,70	ia 3,13	7 985	25,44

durl ng	the year	1912-13.						}			Cost.		
		Chain an	d compas	a or other an	rieys by local	officers.		4	Total forest				
	Wit	h interio	r details.		Bou	ındary surve	75.	Areas remaining to be taken	area at			Butire	Remarks.
4" 01	over	Und	er 4".	Total	Previous.	Of year.	Total	entreh.	the year as per Form No. 7.	Previous.	Of year.	cost of all surveys to end of the year.	Man va
Pre-	Of year.	l're- vious.	Of year	Cast,	T icvious.	Or year.	Cost.						
14	ış	16	17	18	19	20	22	22	23	24	25	25	97
q. Ma.	Sq. Me.	Sq. Me.	Sq. Ms.	Rs.	Sq. Ms.	Sq. Ms.	Re.	Sq. Ms.	Sq. Ms.	Rs.	Rs.	Rs.	
1					4		***	11-1	2,570	94,301		94,301	*North and South Macou excluding Dhanwah
#1	***	#*		•••	- •	<b>"</b> .	***	-	768	89,840		8),840	Range.  †The Divisional Forces Officer reports that the area given in previou year's report was in
***	"	***		***		444	***		792	2,12,429	400	2,12,429	year's report was in correct. Includes Dhanwahi Rang
"	""		/**	***	144		•		753	79,030	••	79,010	also.
"		***	'			440	**	***	939	1B,B73	***	28,873	
200	art	••	"			*	44*	•~	Big	60,146	••	60,146	
411						1/4	***		727	49,185		49,18 5	
1	,				4	e#	111	<u>.</u>	7,552	6,03,804		6 03,804	
chs				•		*	***		916	454963		45,963	
***		***		***		***	410	<b>,,,</b>	\$33	36,822	**	35,822	
444		-		+14	6	100	188		665	49,549		43,549	
mi -			111	416	4	a <b>91</b>	: 414	194	1,402	86,990		86,090	
ste.		,			411	471	***		716	60,457		60,467	
***	441			411	a+	***	pre		1,380°	3,03,818	• • •	1,03,818	
***				***	10	•••	849		6,966	3,70,618	411	3,74,613	
36	43		***	1,114		417	en•	Ŋú.	3.307	2,13,128	499	2,13,567	
46	***	•••		<b>§40</b>		**	411	755	240	1,971	•••	1 <sub>2</sub> 971	
28			***	79	,	==-		176	429	421	41.4	492	
***	257			e.		ţes		-	1,\$26	28,323	<b>š</b> o	<b>2</b> \$,373	
***	"		***	774	***	tro	111	6		8,400	20	3,430	
ket			***	***	-	•••	t-	29		5,308		6,309	,,
***	***		***	"" 		***			1,189	20,116	<u> </u>	20,207	
110	44		•	1,743	***	***		366	6,155	8,78,407	श्चेत्र स्था	2,73,\$28	
iii	44	***	hell	1,143	14	114		365	20,572	12,53,139	Set.	12,53,950	

	Ar as for to oxpl ten a ret Itel Gove	which ng have i nel by ernizent	Areas for working t are bei ecompil	ng ed.	which	Areas for which	Total forest area as in Form	Cntire (ost per square mile of	
Division	At commence ment of vear	Dum g vetr	At comment ment of year	iaken in hand d ring yeat.	tolen in	not at present required.	No 7	orking- plans completed	Remarks.
E STATES OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF TH		3	4	\$	6	7	В	9	10
	Sq ms.	Sq. ms	Sq ma	Sq ms.	Sq. ms.	Sq. ms	Sq. ms	Rs.	
NORTHERN CIRCLE  Mandia (North and South Mandia excluding Dhan	324		••	†119		‡2,12 <b>7</b>	2,570		†Rough scheme of working for Khannat forest.
wahi Range).  ubbulpore Nursinghpur (ir cluding Dhanwihi Range).						•••	<b>7</b> 68		\$803 square miles B. I. Class forest which as to be shortly disforested
Damoh	792	***		•••		***	792		
Saugor	néo.				pas		753		
Hoshangabad	. 740	•		•••		199	939		
Seoni	813	(48					813		
Chhiadwara	666	•••	666	•••		<b>\$</b> 51	717		§ B. I. Class 1 yotwari meas.
Total	4,190 [6 <b>6</b> 6]		666	119		2,377	7,352	•••	
SOUTHERN CIRCLE									
Balaghat	196 *747		747		22	81	976	5	22 Square miles recently afforested.
Bhandara .	533			***			533		
Bilaspur	*407		665				66	5 "	
North Chanda	. 1,110					(6) 2)2	1		
South Chanda	73 *50 1		552	***		(r) 761 (d) 307	1,29	3	(c) Mainly B Class, includes a square miles o forest. Village and 9 square miles like to be disforested shortly.
Nagpur Wardha	*716	s	716			***	71	6	(d) Sironcha Range.
Raipur	*1,35£			1,36	3	17	1,98	io	Forest villages (17 square mile
Total	1,84		2,680	2,36	3 2	2 1,05	8 6,9	65	

<sup>(</sup>à Norg -Areas envered in column 7 should not be entered in column 6.
Norg -Figures 1, arked \* in column 2 denote areas in 4 bich the correct working-plant are under r vision.
(d), usagina B Class forests.

4	bee i s	is for which ng plane have inctioned by Government.	wor i	or which or-prius being iplied.	Area for which	Area for which	Total	l ntire cost	
Division,	At commune munt of year.	Puring year	At comme ce ment of year.	Palen in brad during year	w rking- plans have still to be taken in hand	with me plant are not at present require)	forest nea 28 in Form No 7	per square mile of wording plans completed	Remark-
graduate mathematics and terminate disconnections and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and terminate and term	T ,	7		5	6_	7	8	9	30
BERAR CIRCLE,	Sq ms	. Sq ms	Sq ms.	Sq ms	<sup>e</sup> q ns	Sq ms	≈d ms	Rs	
Kelghat	69.		474		***		t,167	***	
Amraoti			(a 240	ska	<b></b>		(a) 240 •	•••	(1) Descease of 13 quare miles is due to C Class areas being disforested
Buldana		3	[ <i>l</i> ] 426	, <del>-</del>	••	•••	(b) 429	•	(b) Decrease of 17 square miles is due to C Class.
Yeotmal	(1 <u>)</u>		(c) 1 172		•••	(d) 54	(e) 1,426	****	(c) Includes to square miles in column a which will be incorporated in the working-plan for the whole Division (c) Increase of a square miles is due by transfer of certain villages from the Akola Di-trict. (d) Area of "C" Class which will shortly be listore-ted and therefore excluded from the wrking-plan.
Akola .	. (2		(g) 318		100	•••	(f) 318	***	(f) Decrease of 24 square miles is due partly by disfore tation of C Class forest and pur ly by transfer of certain villages to the Yeotmal Di-trict.  (g) Includes 2 square males in column 2 which will be in corporated whole in the working-plan for the Division.
Nimar ,	28	<b>R</b>	h 1,404	***			(i) 1 636		(h) Increase of 3 square m les is due to correction of areas by recalculation.  (i) Decrease of 266 squa e miles is due to "-I forest are as being disforested for Ryotwaii Settlement.
Betul	. 1,18			41,	•••	<i>(</i> ∕)8	(λ) 1, 89		(J No working-plan is required for 8 square miles of F-I Class forest.  (A) Decrease of 139 square miles is due to disforestation of areas for Ryotwari settlement
Total Berar Circle	2,15		4,434	144	141	62	6,245	.,	
Grand Total for Centra Provinces and Herar.	I		7,380	1,482	23	3,497	20,572		

			New work undertaken d	uring the year,			
there we	Buildings.		Roads and	l pathe.		Other works.	Total expendic
	Description of buildthy	Expendi- ture incurred.	Description or real or path,	Length of road or path.	Espendi- ture incurred.	Expendi- ture encurred.	Total expendi- ture on new works.
	1	,	4	5	6	7	8
VORTHERN							
ርነ <b>ኮርነ</b> ቱ		B5.		Miles.	Rs.	Rs.	Rs.
andi. North and	Rest-houses	20	Cart roads	1	156	115	
South excluding Dhanwihi Range).	Subordinates' quarters	2,349	Coupe and feeder roads	7	Iog		ļ !
<u></u>	Other houses	284	Inspection and other paths	4	25	<u>"</u>	ja t
		204	Alignment	6	10		
	Total	2,653		18	300	115	3,06
dualpore - Narsingh pur (including Dhun	Houses for Subordinate Establishment.	903	Regular cart roads	8	400		
nahi Range)	Others	140	Coupe and feeder roads	4	200		***
				<u>{</u>			
	Total	1,043	-	12	600		1,64
	e am statad						-,-,-,
taisisti	(ompleted.	832	Cart coads	18	2,909		
(100.21.00)	Others				, ,,,,,,	475	***
	In Progress.						
	Subordinates' quarters	342	Aligament	39	260		
	Rest-house			1	355		***
	Total	2,591	-	70	3,524	475	6,8
	Completed.						
Sewger .		1,046	Cart roads	3	470	411	•••
			Feeder spads	. 8	16		
	Others .	. 275		7	1		_
	Totai .	1,321		18	65.	4 61,	4 2,5
	Completed.					-	
Hoshangibud .		550	o, Carl roads	36	(a) 10,68c	548	, Ì
		2,850		110		1	
	Houses for Subordinat Establishment.			100	• • • • • • • • • • • • • • • • • • • •	910 01a	***
	Ort.	- 85				***	***
	Total .			1			1.

,					Other Works.		Remarks.
Buildings.		Road 1 and	paths.			Total expenditure on	
Description of building.	L spendi- cure incurred.	Description of road or pith.	Length reparred.	I Spendi- fare incurred.	Expendi- ture incurred.	repairs.	A . P. AT PROPERTY AND A
9	10	11	11	13	14	15	16
	R <sub>5</sub>		Miles.	Rs.	Rs.	Rs.	
Rest-houses		Cast roads	89	636	224		
Subordinates' quarters			و	33			
Other houses		1	58	101	***	•••	Includes Rs. 90 on account of pay of mali.
			126	770	224	2,433	
9. Al	2,439		85	614			
Rest-houses .			104	52B	357		
Range officers' quarters	2C:			13			
Houses for Subordinate Estat lishment.	67:	Path roads					
	961		191	1,154	357	2,477	
Rest-house	24	Cast rords	18	642	527		Garage Control
-	5			59	314		
	50			699		**1	
		1					_
	8	55	18	70	52	7 1,80	<u> </u>
		08 Cast 102ds	114	90			
Rest-houses	*				1		
Rangers' quarters	1	34	•"		15	37	
Houses for Subordinate Est lishment.	ab-	б4 •••	B.				
		306	114	90	p6 I	1,89	99
Danie was delanie		253 Cart roads	250	4 2,0	85 3	04	(a) includ Rs 736 on sec
Range quarters Rest-houses		186	•6*	***			Rs 736 on second cost of Establement employed
Houses for Subordinate E blishment.	·	532 "	***				ment employed road work.
-Others		284	341	•••	480	•	
		265	25	4	85	304 3,6	554

			New work undertaken during th	03°a).			
Piris an,	Building		Road, m	d patha.		Other works.	Tatal aspend
	Description of hulding.	Evpendi ture incursid	Description of road or path	I ength of road or path	Expendi- ture incurred	Expendi- ture incurred	Total expendi ture on new works,
3	2	٥	4	5	6	7	3
NORTHERN CIRCLE,—(Concld)							
,							
	Completed.	Rs		Miles.	Rs.	Rs.	Rs.
Seom	. Houses for Subordinate Establishment	673	Cart roads .	2	495	1,434	***
			,,		Die .	200	٠.
	Total "	673	-	2	495	1,434	2,60
		<del></del>					
	Completed						
Chhindwara	Houses for Subordinate	11	Regular cart roads	14	3,334	144	, mas
		401	1	100	***	258	.,
			Alignment with road	10	6		<b>m,</b>
	In Progress		dates	113			
	Rest-house	325			<i>f</i> bo	•••	***
	Houses for Subordinate Establishment.	683	109	•••	949	***	•••
	Total	1,019		24	3,340	258	4,617
General .		***		••	414	900	§ god
GRAND TOTAL .	,,	15,293		290	20,674	4,344	40,31
							4-30-
SOUTHERN CIRCLE.							
Direction .	444	***	84>		•11		740
Balaghat .	Head-quarters houses	***	Regular cart roads	13	5,028		
	Rest-houses	733			***		1111
	Subordinates' quarters	2,824	Inspection and other paths	***	***	٠.,	<b>59</b> •
	Other buildings	1,043		7	258	1,283	**
	Total	4,500		20	5,286	1,283	11,16
Balaghat School	Head-quarters houses	1,198	Regulas cart road	010	163	.,,	***
	Total	1,198	1	41.	163	, sab	1,31

		Repairs executed during the	· vėn.				
Building:		Ro ids an	d paths.		Other worl s.		Remarks.
Description of building	Ligen li- ture incurred	Description of road or path	Tength repaired,	Expendi- ture incurred	C pendi- tur mcarrid.	Total expenditure on expanse.	
0	10	il it	17	13	14	15	16
	R.		Miles	Rs.	Rs	Rя	
Rest-houses	360	Cart 10ads	92 <sup>1</sup>	353	78	1 756	
Houses for the Subordinate Establishment.	905	Coups and feeder roads	15	бо		***	* Includes Rs. on occount of p of a mail.
	1,265		107	413	78	1,756	
ľ							
Rest-houses	32	Catt road	54 <sub> </sub>	283		,,	
Range officers' quarters	51	•••	•••	•	439		•
Houses for Subordinate Esta- blishment	<b>6</b> a		***	14	234		
	143		54	283	234	660	
s.	<b>545</b>			461	100		§ Represents
					1,911		Represents and travelling all ance of Tank or seer and his estimations.
	6,739		864	6,312		14,902	lishment.
Head-quarters houses	<b>t</b> as	Cart roads	77	4,685	***		
Rest-houses		Bridle paths	<u> </u>			149	
Subordinates' quarters	865	Other foads	142	664		•••	
Other buildings	22	tu tu			333	)   	<u> </u>
!	1,363		219	5,351	333	f,946	
Head quarters houses ,	1,038	Cart 108d	AP+	185	199	*	
		-		185	199	1,397	•
	1,038			1 .09	1 -99	1,00/	1

			Net a sundertified ming	fne to tr.			· · · ·
Lisia i	P1, 6	•	onde nd	prihs		Other voiks.	Total expendi-
	Drjtifila	Fulli- tir maried	)) cupt ucfieddor; th	In the fr	l pr 1 B	L pendi-	ture on new
I	2	3	1	5	h	,	8
SOUTH RN CIRCLE -(Cort)		Ь.		li e	Rs	Rs	Rr
Bhandu i	li d'quiiter, house		Le nai careroans	2	1,667	} }	•••
	e -hou cs	4-0	Compand feeder 20 ids . [	j ••• j			•••
	Sub-11 istor guarter		to retion and other		,	***	
	Other buildin .	14	th mest with 2013	•••	13	3,552	***
	lotal	3317			1,679	3,552	9,043
Bilacpur	ti in lusipri you es		Parila controids	13	4,261	1	***
	et bouses .	1 168	Crupe and feeder roads	]	••		•••
	· abordi ites qualeis	2187	In tertion and other paths				/10
	Orle buildings	,	Pronnent with road true,	8	58	510	100
	Fotd .	3 255		21	4,319	510	8,084
North Chanda	He dequarters houses		I e alu cortiondo	4	2,278		, ,,,
	Petlouis "	•	trespe nlfettes sonda		бо		
	aulior lie tre' lion	1 *97	In partion and other parts	••	6ე		•••
	Other buildings	31	Aliaments with road trices	3	40		
	Total	1,328		7	9,447	663	4,438
South Chanda	Head-quarters houses	**	Reculm curt roads	5	2,093		١
	Rost houses	114	Coupe and feeder 101d3		•••		
	Subordunt 'quarters	-	Inspection and other pithe		"		
	Office buildings	368	Alignments with road true		***	1,835	***
	Total	1 057		5	2,093	1,835	4,986
Nagpur-Wardha	ll. ad-quarters houses	•	Regul a cast roads	7	2,661	11.	744
	Res -houses	2,677	Coupe and feeder to als	1	79		.,,
	Subordinates' quarters	1,164	Inspection and other paths	,			, ,
	Other buildings	44	Alignments with road traces,	2	112	625	100
	Total	3,885		10	2,852	б25	7,362
Raipur .	H •rd quarturs houses	""	Regolar cart roads	18	4,897		***
	Rest-houses	бю	Coupe and feeder road	٠,,	•••	}	144
	Subordinates' quarters	<b>7,97</b> 9	g i	11	145		
	Oth r buildings "	114	Alignments with road traces,	,	<b>711</b>	661	***
	Total	3,589		°9	5,042	661	9,299
	Total Southern Circle	22,724		95	23,881	9,130	55,735

Buildings.				Roads and	paths,		Other works,		Remarks,
Description of building,		Expend: ture incurred.	Description of reads	or paths.	I engih repared.	Expendi- ture incurred.	Expendi- ture incurred.	Total expenditure on repairs.	
9		10	11		12	13	14	15	16
			Rs.		Miles	Rs.	Rs	Rs.	
Head-quarters houses		914	Cast roads		484	•••	100	•••	
Rest-houses		101	Bridle paths	•••	494		••		
Subordinates' quarters		406	Other roads	•••	154	458	***	•••	
Other buildings		17					257	***	
		524			154	458	257	1,242	
Head-quarters houses	,	**	Cart roads				***	510	
Rest-houses		Se	Bridle paths		10	15	***	,,,	
Subordinates' quarters		210	Other roads		140	806	***	•••	
Other buildings		67			***	' ]	159	•••	
		375			150	821	159	1,355	
Head-quarters houses		***	Cart roads		132	3,315	111	***	
Rest-houses		386	Bridle paths	<b>:,</b> .	411		,	***	
Subordinates' quarters		1,019	Other roads	414	***	***	•••	***	
Óther buildings		14			<b></b> .	•••	778	***	
		1,419			152	3,315	778	5,512	
Head-quarters houses		***	Cart 10ads	***	\$75	2,304	111	111	
Rest-houses		1,025	Bridle paths	***	40	97	***	•••	
Subordinates' quarters		* 1,274	Other roads	410	8	47	914	•••	*Includes Rs. 3 on account of p of establishment
Other buildings		<b>56</b> 9			•••	•••	1,423	***	of establishment
		2,868			623	2,448	1,423	6,739	
Head-quarters houses	.,	***	Cart roads	F*0	231	761		101	
Rest-houses		124	Bridle paths	***	•••	•••	***	***	
Subordinates' quarters		814	Other roads	**		•	***		
Other buildings	***	10				•••	675	***	
		948			231	761	675	2,384	
Hoad-querters houses	***	414	Cart roads	874					
Rest-houses	***	101	Bridle paths	***	•••		***	***	
Subordinates' quarters	••	1,057	Other roads	• <b>ė</b> 1,	222	1,168	1,542	***	
Other buildings		704							
		1,158	}		222	1,168	1,642	3,968	
		9,593			1,751	14,507	6,193	30,293	

			New Works undertaken during th	ne year.			·, · · · · · · · · · · · · · · · · · ·
Division.	Bulidings.		Roads at	nd pathe.		Others works.	Total expends
	De exption of buildings	Lapendi- ture incurred	Description of roads or paths	I ength of road of path.	Lypendi- ture mentrica.	Tapendi- ture incurred.	ture on new works.
	2	3	4	ś	6	7	В
BERAR CIRCLE		Rs.		Miles.	Rs.	Rs.	Rs.
Direction.	••				per		-
Melghat	Head-quarters houses Rest-houses Subordinates' houses Other houses	666	Regular cart roads Coupe and feeder roads Inspection and other paths. Alignment with road traces,	3 0 14 40	 108 32	800 898 800 800	253 210 20b 00d
	Total .	1,082		17 40	140	188	1,410
Amraoti	Rest-houses Subordinates' houses	441 2 163	Regular cart roads Coupe and feeder 10ads . Inspection and other paths Alignment with road traces.	210 210 210		611 610 600	,,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Total	2,654				354	2,654
Bulda na	Head-quarters houses Rest-houses Subordinates' houses Other houses		Regular cart roads Coupe and feeder roads Inspection and other paths Alignment with road traces,	8 40 <del>1</del> 30	8,217 37	### ### ###	114 414 411 413
	Total .	8		8 70}	8,254	1,121	9,383
reotmal	Rest-houses	2,711 5,506 71	Regular cart roads Coupe and feeder roads Inspection and other paths Alignment with road traces.	8 10 	1,803  3	)) (**) *** ())	000 004 412 079
	Total	8,288		8 to	1,806	3,175	13,269
kkola	Rest-Houses Subordinates' houses	2,500	Regular carl roads Coupe and feeder roads Inspection and other paths. Alignment with road traces,		5,500	3007 012 145 219	000 011 118 010
	Total .	3,500		17	5,500	1,325	9,325
Nimar	Rest-houses Subordinates' houses	4,574 352	Regular cart roads Coupe and feeder roads Inspection and other paths Alignment with road traces.	31 4	4,748	646 646 455	**************************************
	Total ,	4,926		35	4,760	4,307	13,995
intui	Oshan Lauren	ì	Regular cart roads Coupe and feeder roads Inspection and other paths. Alignment with road traces,	22 24	35 <sup>2</sup>	hEQ QQ QQ QQ ATE	rbe ebd e\$
	Total ,	1,018		46	402		¥ <sub>1</sub> 945
à	Total Berar Circle	20,476		132 40	40,862	10,641	5,1,979
	Grand Total wor C. I and Brear	58,493		517 40	65,417	24,115	1,48,025

			Rep ura executed during	the v	eir				
Buildings.			Rords	and p	ıth•.		Other works.		Bemarke,
Description of buildings		Expendi- tine incurred.	Description of a relation put	hs	Length repaired.	E pen li- ture incurred,	I spendi- t we mentred	Tot il expenditure on repairs.	
9		10	ıı		12	13	11	15	16
		Rs.			Miles.	Rs.	Rs.	R.	
		••			***		14	14	
Head-quarters' houses Rest-houses Subordinates' houses Other houses	••• ••• ••	180 930 822 835	Cut Roads Bridle paths Other roads		39S 0 309 0 14 0	3,16g 584 <b>27</b>	 		
		2,767			721 0	3,780	373	6920	
Head-quarters' houses Rest-houses Subordinates' houses Other houses		159 177 411 21	Cart roads Budle paths Other roads	: :	63 40 3 40	1,510 7 	411 411 44	, 411 bes	
		768			72 0	1,517	326	2,611	
Head-quarters' houses Rest-houses Subordinates' houses Other houses	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	162 145 475 40	Cail roads Bridle paths Other roads	10	58 38 4 0	850 8 	*** *** ***	3++ 4++	
		802		Ì	62 38	858	567	2,227	
Head-quarters' houses Rest-houses Subordinates' houses Other houses	401 401 401	 1,161 668 32	Cart roads Bridle paths Other roads		16g 20 	59 <b>3</b>	 	*** ***	
		1,861			169 20	593	1,048	3,502	
Head-quariers' houses Rest-houses Subordinates' houses Other houses	440 440 440	35 359	Cart roads Bridle paths Other roads	• •	48 o	419 	• ••• •••	111 117 117	
		394			48 0	419	317	1,130	
Head-quarters' houses Rest-houses Subordinates' houses Other houses	000 000 040	402 1,323	Bridle paths Other roads	10 E 4*1	173 0 	972 	068 060 010	414 411 411	
		3,116			173 0	972	1,020	5,108	
Head-quarters' houses Rest-houses Subordinates' houses Other houses	441 441 441	1,219	Cart roads Bridle paths Other loads	444		2,923 	491 499 410	401 100 411	
		1,244			298 40	2,923	318	4,505	
		10,95			1,554 18	11,052	3 983	25,997	
		27,28	~}		4,159 18	31,881	12,087	71,252	

				Newci	es of th	e vear				Dirpo	ed of du	ring the	)^1r,			
		( 029			(a 1/18) with ut		iotai		Convi	Ltions.	Augu	ittals	Tot		C1 <e4< th=""><th></th></e4<>	
Forest D	er ton,	Pading from previous veur	forert	appro- priation of voil	per- ni sini or in tricts in which graving is pro- hibited	Other offen ecs	neu C) (5 of the year	Foial, 12585	Cares	lersons :	Casca	Persons.	Cases.		it close of year.	Remarks.
2		2	3	4	5	6	7	8	9	••	11	12	13	14	15	16
NORTHLRN	CIRCLL, C P				,											
Mandia(North a excluding Di Range).	and South $\begin{cases} A \\ u \\ C \end{cases}$	60	1	\$10	3 5? 	17	14 485 2	2 045	\$C2 	1,678	3	7	10 562	29 1,678 	6 8 <sub>3</sub> 	
	Total	61	11	517	53	31	(joz	663	570	1,700	,	7	572	1,707	89	
Jubbulpore-Nar (including L Range).	singhpui (A Shauwala   B	71		214	201	12	447	519	1	1,363	2	7	. 5 457	1,353	1 63	
acange).	(G		*3	<del>                                     </del>	206		488	37 562	-	r,369				2,376		•
	Total (A	74	45	217		-	-		-	-	┼	7	462			
Damoh	B	s:	1	216	222	,	448		1	3,102			362	1	1	
	Total	s S	2 9:	245	217		500	552	366	1,107		1	366	1,108	148	
Bay go:	1	. 5		4 235	1 .	1		1 -	1	1	1 '	5	16 \$78	1 .	34	
	(C Total			-		ļ	687		-	1,618	"	-	<u> </u>			
	CA.		-	-	972		-	<del> </del>	}	-	-	5	-	-		
Hoshangabad	. B	217 17		63		1	1 [	134	117	1			117	1 _	1	
	Total		6	63	60	1	133	179	120	389	·	1	130	390	17	
Scoul	{}	3	1	I .	\$	; ; ;	201	299	288	1	1 '		12 288c		1	
	Total	- 3	4 3	301	55	1	2 285	31:	297	7 776		3 2	5 30	0 80	P5 11	
Chlundwara	A B	*5	7	4 18 2 251	260	1	1	583	48;		1	1		1 .	1 7	* Out of the 48 cares pending at the close of the year one was lat- terly cancelled,
	(C Total	6	-	3 277	-	13	\$79	-		871	10	-	520	911	-	
Grand Total	3	3	1	5 37 2 1,68s	1 1		1	1	1 "		i	<del></del>		24:	2 47	
•	C Taial	. 52	-		-		201 5,277	-	-	7,842	200	 g		7.93		

W. E.—A. means cases when into Court.

B. means cases disposed under Section of the Indian Forest Act, 1898.

G, means undereried cases.

	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		-	New ca	sc, of the	. ytal				Dicho	seil of du	ring the	VIZE			**************************************
				Un					Convic	tions	Acqui	It ils	I ot	ıl.		
Potest Di	YI 1011.	Cisc pending from 1911-12	to fr.   hythe	telling.	which	Other offen cus	loral new cas s of the scot.	Ioini cuses	Casts	Per on	Cic	Per onc.	Cares.		( 1962 of yen pending pending	Remarks,
**************************************		2	1	-,		6	7	"	q	10	11	12	13	I \	15	16
SOUIHERN CI	RCII, CP.															
Beloghal	{B C .	4 53 ••	 g	7 724 8	215	2	46 v	7 ,16	4 4C)	1,172		30 	р 69, •-	77 1,1,2	 ,7	
	Total	57	5	2 8	2-3	1	171	531	473	1,1/4)	3	20	176	<b>Z,</b> 1 ,)	47	
Chaudwa	{	1	 	7 1,6 18	10u 3		10 *2/ ;2	24 24 24	7 314	15 052	3	3	10 314 	16 952	111	
	Total	,	14	161	193	ī	<b>3</b> 69	^71	721	957		3	32 \$	970	15	
Bilaspur	{\begin{align*} \lambda & \\ \mathbf{E} & \\ \mathbf{C} & \end{align*}	43	j 1	3 110	93 •••	2	15 210 9	16 258 9	16 241	15 580		43	16 241	89 -89	#7	
	Total	49	14	185	102		234	283	257	631	1.1	43	257	677	1)	
North Chanda	{A B C	64		4 358 8	 170	1	12 400 8	12 564 8	9 5:8	37 2,171 	3	23	12 518	60 2,171	 46 ,	
	Total	. 61		370	147		523	484	\$27	2,908	3	43	£30	2,231	46	
South Chanda	{A B C	. 20		5 177 1	3 85 		26; 26;	10 284 4	371 -	73 CG5 		,	₹0 ∌7₹ •••	16 665 	13	
	Total .	. 21	3	183	48	1	475	296	279	678	2	3	281	<b>681</b>	13	
Nagpur-Wardha	$ \begin{array}{c} \mathbb{A} \\ \mathbb{B} \\ \mathbb{C} \end{array} $			7 44 19	103	3 7 		165	12 158		,,,	I ma	13	79 448		
	Total .	. 13	16	70	111	10	80-	2,10	2/0	526	I	ı	193	527	15	
Raiput	\\ \begin{pmatrix} A & \\ B & \\ C & \end{pmatrix}	6s	4 15	178	1		1	531	477	1 "	1	79	34 477	2,181		
	Iotal	65	30	187	283	14	514	\$70	498	3,911	13	79	511	2,291	57	
Total Southern	- 1-	26	7 2 39 50	1,231	1,097		1	2,610	2,44	8,17		173	10s	1	8 198	
	Total	27	1 87	1,322	1,149	3:	2,59	3 2,86.	3,52	5 8,39	4 25	172	2,450	8,56	6 910	

				New ca	e of th	(LIF				Dispos	ecd of du	ring the	)car			
				Un-			_		Convic	tions.	Acqui	tt ile.	Tot	nl lr		*
Cores*	Виза п	Cin 9 Jenhing from 1911 t2	to for st his tire	enth n 1 Cel Ciling or appro	Giline without per- msim orin tract in which grazing pro- hibited	Other rifes ees	Total new (1965) of the 30 IT	Idal cr44.	( 1sc	Persons.	Casus.	Persons	Chare		Cases, pending at close of year.	Remails.
prijanja di	I	2	•	4	5	G	7	8	0	10	11	17	1	71	15	16
DI RAR (	CIRCII, CP.															
elghat	\{ n \	2	1	67	, 12 	 8	3 94	3 26 	3 86	1S 236			86 	18 236	10	
	Total		-,	67	12	10	97	99	89	251	<u> </u>	<u> </u>	89	241	10	
nrao ti	. {\bar{A}{D}{C}	10	1	 46	181	<sub>3</sub> 2	2 n2 3	192	1	7 8;9			267	11 6,8	 25 	
	7	. 12	<u> </u>		189		249	OI	<u> </u>	855	1		273	¢Aŋ	25	
aldan 2	A B C	2)		4 159	1 112	7 279	14 8,0	869	833	2,350			15 833	13 2,950	36	**
	Total ,				145	246	) 663	9 504	<u> </u>	2,370	" 2	13	849	2,393	17	
otmal	{\bar{\bar{\bar{\bar{\bar{\bar{\bar			9	2 1,255		2,036	11	9	17 5417	·			91 1:447		
	(c .	-	<u> </u>	11		· 	11	11			***				<u> </u>	
	Total	59		695	1,255	111	2,058	2,827	2,019	4,164			7,015	4,169		* Two cases withdrawn
ola	{B.	18		151	195	 6	513 3	~01	553	1,627			\$\$3	1,627	1	and dealt with under Section 67.
	Total .	18		163	101	6	570	598	\$71	1,640	4	27	\$75	1,077	10	
nar	$ \begin{cases} A & A \\ B & A \end{cases} $		3 5	179 24	1/3 	5 31	12 415 27	17 173 27	1	23 1,293	1	1	433	26 1,293	1	
	lotal	29	7	205	235	37	194	517	442	1,316	2		444	1, 319	42	
qi	. {\bar{\bar{\bar{\bar{\bar{\bar{\bar	131	1	 853	2 138	1 22	4	4 416	4 411	4 1,100	,,	. 3	f 412	1,103	1	r Opening balance should be 31 instead of 10 as
	{C . Totai .	31	13	255	140	13	13	13 463		1,104		1 ' 3		1 102	54	now reported by Divisional Forest Officer.
	(A	*******										ļ	416	1,107	-	
nd Total B	mar Circle B		13 22	23 1428 44	2,617 	16 169 	70 4,657 66	76 4,844 66	69 4485	11,931 111	10 3		72 4,588 	175 11,034 	3 256 	
	Total	198	37	1,595	2,675	485	4,793	4.985	1,618	12,013	I	64	4,660	12,107	259	
al Central 18 and Bers	Ptovin- A Case  B  G	780	13 93 152	97 4:449 290	112 4,939 29	is ssr	269 10,023 871	3219 10,782 371	9,885 9,885	477 27,862	55 2	i	957 9,887	803 27,805	42 894	
	Total "	7R9	260	4,737	5,080	198	10,663	11,452	10,087	28,379	57	359	10,544	28,608	937	

N. D.—A. menus cases taken into Court. B. meaus cares diaposed of under Section by of Indian Forest Act, 1878. C. means undetected cases.

Бічніоп	Forest tracts	Year in which piotes tion commenced	Area protected during torres	Asca attempted to be protected	Trilures	Area actually protected	Cest.	Remarks.
<u> </u>	2	7	1	-	6	7		9
	PORTHERN CIRCLE		Acres,	Actes	Acres	Actes.	Rs.	
	Systemetically fire- protected areas.							
North Mindle	Mandle Range	,,,	9,009	9,009	2	9,007	658	ı Fire.
(old Mandla)	Saustul ,,		787	787	140	647	47	I 19
	Total North M indla		9,796	9,796	142	9,654	705	Failure 1'45 per cen
ſ	Jagmandal Range	• • • • • • • • • • • • • • • • • • • •	35 612	35,984	3	35 981	969	1 Fire
South Mandla	Banjar ,,		62,512	62,512	17	62,495	1 419	1 11
(old Mandla).	Motinala "		84,822	86,114	409	85,705	1,660	2 Fires.
ţ	Kuanja "		ļ	68,629	3,411	65,188	1 155	5 ,,
	Total South Mandla		182,476	25,3,330	3,870	249,369	5,203	Fulure 1.23 per cent
	Total Mandla (Nor and South).	th	192,772	263,035	4,012	259,023	5,908	
ſ	M		37 366	38,865	180	38,685	t,017	a Fires.
	Sihora "		7,077	10,235	2,948	7,287	401	5 n
	Jubbulpore "		36,833	36,858	,,,	36,858	2,189	
Park to a co	Bargi "	,pz	2,251	2,261	10	2,251	162	1 Fire,
ub bu   porc	Dhanwahi 11		45 472	47,116	2,102	45,014	537	5 Fires.
(including Dhanwahi	Bachai "		25,871	25 939	24	25,915	586	1 Fire.
Range).	tichhai "		6,105	6,1,13	573	5,560	222	I n
Į.	Khaiti "		40,045	40,513	•••	40,513	486	
	Total	111	201,030	207,920	5,837	202,083	4,500	Failure 2'81 per cen
(	Northern Range		16,983	53 954	5,237	48,727	582	8 Fires.
\ \	Cantu-1		38,843	54,479	2,200	52,279	625	2 ,,
Damoh {	South-Western ,		68,269	102,588	14,901	87,687	1,178	4 и
(	South-Eastern ,,		69,906	69,931	5,416	61,515	752	5 N
	Total	14	194,001	280,962	27,754	253,208	3,137	Failure 988 per cen
١	Saugor Range		34,180	35,497	2,303	33 194	891	11 Fires,
	Rehli "		43,112	54,190	80	54,110	996	z Fire-
Saugor	Khurai ,		19,805	24,455	2,132	23,323	989	6 Fires.
	Banda ' "		28,810	33 300	4,190	29,110	793	5 v
	Deori "	***	31,052	29 718	4	29,714	968	1 Fire.
•	Total		156,989	177,160	8,709	168,451	4,637	Failure 4'92 per cen
۲	Bori Range		167,931	170,638	140	170,638	760	
	Sohagpur "	, .,	59,545	59,715	4**	59,715	1,471	
Hoshow	Hoshangabad "		41,216	53,854	*14	53,854	1,482	
. brdsgnadeo	Seoni "		50,892	80,931	64	80,867	1,418	1 Fire.
	Rehatgron "		93,851	93,851	85	93,766	921	I n
į į	27 25	, 144	80,504	80,686	***	80,686	624	
	Total .	at 111	523,939	539,675	149	539,526	6,678	Failure 003 per cent

FORM NO. 14.—[PRESCRIBED].—Area of Forest Tracts protected from Fire during the year 1912-13—(Contd.)

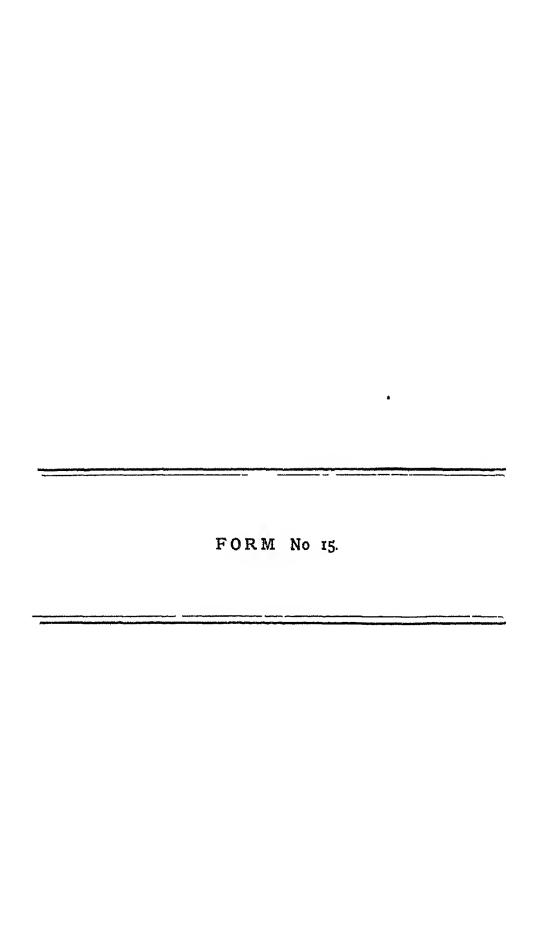
Division,	Forest tract	Ye a m alah protection communicel	Area protected	Are enthempted to be a lected	Ladures.	Aici ictuilli protesteil,	Cost.	Remarks.
1	- ,	,	1	 s	6	7	8	9
en gift an annual survey	NOR THERN CIRCLE - (Comt)		Aac	Aner	Acit-	Acre	Rs.	
,	Sy temetically fine-fro- tected are so (Concil		0	016		V6 n. 4	2,178	i Fue.
i i		"  -	80 315	£6,316	2	86,314		2 Fnes,
	Gunganit,		78,011	78,011	17	77 99 1	1,369	
leoni	ប <sub>្</sub> ម , .		79 588	8,,1,5	763	79-373	1,450	† "
	Chicipar ը	•	5 56,	ნ ეჳნ	131	6,225	494	2 ,,
	Dhunn , .		1 177	2 300	284	2,0,2	103	t Fne.
(	"	"	8 731	10,001		7(001	524	
		''	259,165	203,125	1,196	26:,929	6,118	Failure o 45 per cent.
ſ	Umreth Range	•	39 935	52,715	335	52,380	453	7 Fires.
	Amawai ,		17,940	34,002	20	180,55	6	r Fire
Chhindwara	Ambara "		25,311	71 639	176	71,493	701	4 Fires.
ļ	Silkman ,		45,242	47 716	64	47,652	\$.8	3 "
į	Sank ,		37,713	33,517	263	33,254	262	2 ,,
	Total		166,170	239,606	858	238,751	1,950	Failure 0'36 per cent
	TOTAL NORTHERN CIRCLL.		1,692,786	1,971,486	48,515	1,922,971	33,028	Protected 97'54 per cent.
	SOUTHERN CIRCL	£,						
ſ	Sonawani	1899	67,194	67,456	413	67 456	1,060	
	Paraswaia .	1872	65 834	C8 384	3,519	64 865	955	3 Fires
201.0104	Raigath	. 1867	109,885	108,080	300	108,680	1,080	2 19
Balaghat {	Dhansua	1889	129,190	129,190	440	128,750	1,006	2 ,
	Lanji .	1896	42,650	42,ú86	1,257	41,429	1,009	3 11
,	Baihar .	. 1899	64,143	64,143	790	63 353	1,308	3 "
	Total		478,396	480,839	6,306	474,533	6,508	Failure 1'3 per cent,
(	Bawanthari .	1894	79,668	69,017	30	68,987	998	ı Fire,
	Gaikhuri	1888	102,729	80,298	203	80,095	1,620	3 Fires,
Bhandara	Danielana t	1894	63,382	62,605	838	61,767	1,500	4 11
	(17.1	1894	38,173			40,182	602	2 ,,
	Tratal		283,952	•	44	-	4,810	Failure '44 per cent.
,	Post Parent	***************************************			1,115	251,031	1,463	2 Fires.
	737 T	1892	156916		3,030	151,095		a Pitesi
Bilaspur		1892	126 369		427	126,704	1,590	. Firm
		1888	49,859	1	914	61,556	955	3 Fires.
·		1870	-		1,200	66,464	565	4 ,
		"	391,234	- <del> </del>	5,144	405,819	4,573	Failure 1'25 per cen
		1873		ì		243,874	5,729	
	1	1891	1	126,810	t**	126,810	3,523	
North Chanda.	Warora	1894		35,920		35,920	692	
	Gunjewahi	1888	24,966	24,482	574	23,908	451	3 Fires.
,	Brahmapuri	1897	14,479	14,479	2,744	11,735	507	3 ' 11
	Wairagarh	18g	7 29,300	30,578	1,020	29,558	555	2 p
	Total	+1 +1+	464,097	476,143	4,338	471,805	11,457	Failure '91 per cent,

## FORM No. 14.—[PRESCRIBED].—Area of Forest Tracts protected from fire during the year 1912-13.—(Contd.)

Division.	loc st tract		Len in thich 11 tection omnicional,	At a protected	Area attempted	Pulues,	tier returils protected	Cost	Remarks
1	3	3		4	5	6	7	8	9
	SOUTHERN CHICLE.	1		Aeres	Acres	Aeres.	Actes.	Rs.	
	Sixtomatic Us fire protected overs								
(	Allapilli	!.	1873	72,045	72,016		72,946	2,857	
	Ghot		1897	83,161	83 991	201	83 885	669	ı Fire.
South Chanda,	Markhanda		1891	1 79 594	129,594	•••	120 594	1,290	
	Suoncha		(a) 1897 (b) 1907	} <u>56623</u>	97 901	<b></b>	97,901	902	(a) Partial protection.
l	Diaba		1890	1 ८ ६,099	107,017	95	106 912	1,918	ı Fire.
	Total	•••		480 823	491,439	201	491,238	7,636	Failure '04 per cent.
,	Fast Pench				43.419				
	West "	"	1875	90.458	137,131	20	137,411	1,223	2 Fires.
	Kandhali	"	1878	GO 551	75 340	502	74 748	514	3 ,,
Nagpur-Wardha	Umer		1894	30.054	39,895	19	38,8 <b>76</b>	843	3 12
	Hingm		1895	20,875	40,740	197	40,543	794	4 11
	Arvi	"	1814	12,553	42,780	165	42,115	328	1 "
,	Total		1880	15,115	50 536	764	49,772	409	3 m
	2011	"	***	218,606	385,232	1.757	383,465	4,111	Failure 46 per cent.
ſ	Laon	•••	1989	46,458	46,572	962	45,610	1,065	3 Fires.
	Sirpur Khallari	"	1889	კ8 ნის	38,993	379	38,615	1 755	5 ,,
	Dhamtari	***	1896	67,065	67858	2,510	65,348	7,385	4 25
Raipur . {	Singpur		<b>ა</b> ⁻ენ	59.472	G0,959	740	6,219	895	3 1.
	Balod	-	18.6	67,534	67,798	481	67,317	1,016	8 ,,
	North Sihawa	"	1890	152,711	155413	14,063	141,345	1 634	5 "
	South Sthana	"	1903	162,125	162,312	11,722	150,590	1,178	4 11
(	Billari Ghuçwa	•••	1900	1,606	1,606	223	1,383	40	I "
	Total	"	***	595,601	бо1,511	31,084	570,427	8,959	Failure 5'17 per cent
	Total Sauthern Circle	`	>47 	2,921,709	3,098,263	49,945	3,018,318	48 054	Protected 98'39 percent.
(	Sembadh Range		١ .	<b>77,</b> 696	77,696	***	<b>7</b> 7,696	1	
	Chautakund "			6,3,677	63,877	***	63,877		
	Butiam ,		1872	77,242	81,992	_ 41	81 951		1 Fire.
Melghat {	Khandu "		]	90,484	85.739	9	85,730	7,167	1 ,,
	Gugamal ,		1877	151,731	151,961	800	151,161		ı "
	Chikalda "		1890	31,242	34,242	***	34 242		
ţ	Tapti Reserve		1911	26,834	26,862	500	25,362		I 25
	Total		***	522,106	522,369	1,350	521,010	7,167	Failures :258.
,	Amraoti	ĺ							•
Amraoti }	Warn	*	1881	18,483	18,382	58	18,394	1,066	3 Fites.
	T-L1	**	1889	19,507	19,511	493	19,511	]	
	TOTAL 144		700	37,990	37,893	58	37,835	1,006	Faiture '15.

## FORM NO 14.—[PRESCRIBED].—Area of Forest Tracts protected from fire during the year 1912-13.—(Concld.)

Dass	ion.	l onest tracin	Lear in which to are in the second	Aic i protecte l during 1911-12	is intempted to repote tel	I ulure	Area actually protected	Cost,	Remarks,
		9	3	1	5	b	7	8	9
	_	BFRAR CIRCIT -		Actes	Aues	Acira	Acres.	Rs.	
		(Concld)	-						
	[	Jalgaon Range	1893	34 395	34 430	1,483	3,947		1 Fues
Buldana	{	Chikhli " .		68,335	68,345	***	68 345	* 0.40	
		Puint	1880	21,291	23,063		23,063	1,853	
	Ĺ	Mehkar " .	1881	28 956 I	2º 056		28 956		
		Total .	***	1 \2 967	153 794	1,183	152,311	1,853	Failures g.
	{	Yeotmal Range	1852	45,874	45,874		45,874		
		Dunha ,,	1882	(8,551	38,851	10	38 841		ı Fire
	1	Kelapur ,	. 188t	59,147	59,147	130	59,017		r Fire,
Yeohnal	₹	Wun 31	1803	21,792	21,392		21,392		
		Pusad ,,	. 1880	153,511	156,041	- 1	156,041	3,284	
		Baldı Pındi Reserve	1108	2,432	2,432		2,132		
	ſ.	Urdı "	1908	່ 4,48ດ 	4 489		4,489		
		Total .	* *	325,726	378,226	140	328,086	3,284	Failures 04.
	ſ	Pangra Range	. 1882	41,566	44 591		44,591	3,204	Vanues 041
Akola		Moina ,	. 1891	21,524	21,824	25	21,790		
	"	Balapur ".	1881	3005	32,878	-	32 878	1,427	1 Fire
	Ĺ	Murtizapui ,, ,	1902	25	25	336	25		
		Total .		99,320	29,318	25	99,293	1,427	Failmes o2.
	{	Khandwa Rirge	. 1877	44,452	42 597	90	42 807	-14-1	t Fire.
		Purisa ".	1875	94,458	93,698		93,698		
	į į	Chandgarh ,, .		88,144	88,149	344	88,149		
limar		Singaji "	1	41,429	44 378	635	43 743		t Fire.
		Piplod "		8,98ç	€2,592		б2 <u>5</u> 92	11,726	* Includes area ( Bhainsa Range sinc
		Chandni "	, ,	* 78,729	65,172	785	64,387		abolished.
		Burhanpur " Kalibhit "		80,185	110,297	9,640	10,657		3 Fires.
	١	restinute " "	1874	121 593	181,487	70	181,417		I Fire,
		Total .		557,979	688,670	11,270	677,450	11,726	Failures 1 6.
	ſ	Ranipur Range .	. 1880	52,031	52,184	543	51,641	11,720	4 Fires.
		Bhawargarh , .	1875	79 652	79 902	400	79,902		a Fires.
			1875	80 380	80,380	1,571	78,809		
ietul	4		1875	102 557	125,185	1,196	123,989	7,168	ı Fire.
		D, bka "	1	72,423	31,350	4 per	31,350	****	
		Sawalmendha , .		49 011	4,151	441	4,151		
	Ĺ	Mr 1	igat	122,177	123,809	730	123,079		a Fueș.
	1	Total . Total Berar Circle .	-	578,229	496,961	4,040	492,921	7,168	Failules '81 '79-
i i	ļ	GRAND TOTAL CENTRA		4,274,317	2,327,231	18,315	2,308,915	33,69t	Protected 99 '21.
,	Ì	Provinces and Berai	L ne	5,888,812	7,396,980	116,776	7,280,204	1,14,773	Protected 98.

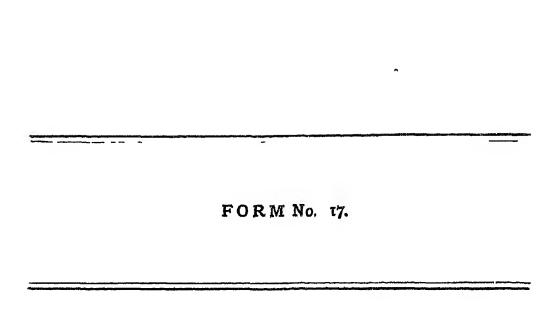


										·		guning inside
		rcs a sused by	,	nce at Emn+			Ow	ring to carely	sness of acc	ilent.		
Da 1 юр	l scender	ness an hough ness at hour- tic I nes.	1110	nesett mi myesting ets ce	ed in t by pure ore t and t	orn employ- lik lorest, hasers of my duce likes,	lesa Sec Ultrou	ere, truck- presing gh the c-t-	Ry R En	Ruce" ; rijmsk	By ligh fire b	tmog or by
	No of	Area humit m acre	Vn of tre .	ited by nt nacie	No. (f	Area burni m seres.	Nz i f	An i limint	Vo. of incs.	Area buint	No of fires.	Area burnt in acres.
1	2	1	,	5	6	:	9	9	30	11	13	13
NORHERN CIRCLE												
North Mandla (Old Mao	1	2	••	1					•		••	
South Mandla (Old Mandla)	ļ .			1 105	3	3,776	2	303			-1.	
Jubbulpoic Narsinghpord (Including Dhanwith Range.)	1	6	2	96	6	2,276	1	10	***			
Damoh	  -  2	9,565	- 4	3,431	t	3,940	3	2,030	114		tre	
Saugor	)   a	29	ı	4	1	1 272			3	160	"	
Hosh ingrhad .			••	310	••		٠		•••	]	***	***
Seoni	1 3	288	3	18	2	131	•••	A91	•••		**•	
Chhindwara	2	120		***	•••		8	245	•••		***	***
Total	11	10,010	12	3,654	13	10,695	14	2,588	3	160	***	510
SOUTHERN CIRCLE.	i I											
Balaghat Bhandara		бე	3	777	3	700	***		***		***	***
	1	14	*	135	3	606	2	63	2	267	**.	***
Bilasput	1	3.000	6 أ	1,594	•••		***		•••	741	***	210
North-Chinda					•	**	***	,	2	386	•••	***
South-Chanda	,		***		•	"	1	106		•••	•••	***
Nagpur-Mandla	3	233	2	18			7	218			***	***
Raipur	7	68 r	3	11,207	6	778	6	7,911	1	382	***	****
Total Southern Circle .,	16	4,027	14	13,731	12	2,084	16	8,298	5	1,035		***
BERAR CIRCLE. Melghat	ı	800					3				. 1	
A normati		l	***	***				550	***	j	176	ese .
Buldens		"		900	*	4	•"	"	•••	***	***	*>*
Vantonal	2	503	1	800	•••	•••	***			"	441	***
Akola	•••	""	**	""	-	***	I	130			***	. t
	***		1	25		"	•••					***
Nimar	I	70	**		2	470	•••		x	95	•••	ate
Betul Total	3	2,061			5	1,972			•••			***
GRAND TOTAL FOR C. P. AND BERAR.	34	3,434	28	18,210	33	2,446 15,225	34	680 11,566	9	9\$ 1,290	•••	inter
		1			Lan.		į			1		

		<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	By int	entional firm	g.	<del></del> .					
	to obtain grass.	game or	to turn out to reduce ver.	Malicic	ously fired .	To	itel.	Csusss w	skacwa.	Total (A) (E	3) and (0).
in. of	Area burnt in acres.	No of tires,	Area buent in acres.	Na of fres.	Area burnt in neres.	l'o of fires.	Area burnt in acres.	No. of fires.	Area buent in acres.	No. of fires	Area butni in acres,
14	15	16	17	18	19	20	#f	31	25	24	25
							•			1	
•••		***	.,,	go <b>1</b>	dee	r#•	480	2	140	2	1.
***	•••	•••	***	*14	***	5	3,374	2	386	9	3,8
***	,,,	•••	,,,	3	573	8	2,859	4	2,876	15	5,8
•••		***	444	***		4	5,970	. 9	8,788	19	27.7
***	(	444	•••	***	***	4	1,432	17	7,244	24	8,7
104		•••			194		*	2	149	2	1.
*1*	m	***	***	"•	***	2	131	۵	759	10	1,19
098		<b></b>	***	Obje		8	245	2	493	17	85
***		***		1	573	31	14,016	44	20,835	98	48,51
***		41,	1.1	1	3,500	4	4,200	4	1,260	13	<b>6</b> ,30
<b>'</b>		***		••	*10	7	936	•••	•••	10	1,11
***		111		•••	***	-		2	550	9	5,14
***	'	***		•••	***	2	386	6	3,952	8	4,33
***		***		•••	9119	1	105	1	95	2	90
***		•••		1	715	8	933	3	573	16	1,75
***		41.		1	97	₹4	9,168	10	10,028	34	31,08
44 44		***		3	4,712	36	15,729	25	16,458	92	49,94
100	,,,,	***		110	•••	***	,	***		4	1,33
***	#	949		***	**	115	899	2	54	3	5
***	**	***	***	***	*14	•••	419	1	180	. 4	1,43
***		***			èqe		•••	1	10	2	14
A**		***	dys	***	•••	the				,	å
440	٠.,	100	,u		,	***	***	4	10,585	8	11,22
•••	418	474		100	Fig.			1	7	9	4,04
411	# 1 The last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of th	400		***	110	13	3,-21	9	x0,836	31	18,31
444	#fh	4)4	**	4	4,885	80	32,966	79	48,129	221	116,77

FORM No. 16.—Area closed and open to Grazing during 1912-13.

			- APPROX	Area in sq	uric miles.			
וִם	\1610 <b>n</b> .	Closed to a	ill anr <del>malo</del>	Closed to brow	ere camels,	Open to all	Total area.	Remarks.
		Whole Jean,	Part of you	Whole yea	Purt of year	Whole year		
	1	,	3	1	5	6	7	8
NOR I HI	LRN CIRCLL							
Mandla (North and S Dhanwahi Range	outh Maodla excluds	ng #59			••	2,3114	2,570	* Includes 803 square miles o fis 1. class forest.
Jibbalpore Narsingh hange)	pur (including Dhanw	ahi 100	•	663		g	768	
Damch Singer Hoshangabad	•	17 157 165	\$ M1	48	-	745 548 770	792 753 939	
Seoni Chhindwara	•	112		571 14	, 	5165	979 811 717	nules of B I. class forest.
	<b>Lotai</b>	071	şo	1,; 8		4,905	7 352	
SOUTH	ern circle. Class.							
Baloghat Bhandara	••	963 144		713	***	":	976 521	3
Bilaspur North Chando	611 615	81 375		584 704 171	***	" 31 15*	665 1,110 9°0	
South Clanda NagpurWaidha Raipur		2/e 121		486* 166		110	715 1,350	* To be distonested
Bhandara North Chanda	CLASS	•	**	,	:::	292	, 392	
South Chanda	11	"			<u></u>	33\$	337	
	Total A and B	1,5)0	461	4,201			6,96*	1
	R CIRCLE.							1
	er and Fuel Reserves							
Meighat Amraoti Buldana	*** ** ***	169 15	6	618 37 190	411 417 411	374	1,161 58 230	
Yeotmal Akola	9 6E 6 EP	49 96 92	::	430 130	 	***	\$ 35 162	1
	Total	. 361	6	1,414	,	374	2,155	
CLASS ** B *) (	GRASS RESERVES).							
Meighat Amraob	134	. 6	13	•••	•••	! :	6 18	
Melghat Amraota Buldana Yeotmal	***	13	700	*** *** 17	,, 9 9		70	1
Akola	Total	19	33	6 			31	
CLASSISS C. P. (F	ABTURE GROUNDS,)	.,,						
		1						
Melghat Amraoti Buldana Yestmal	615 615 848	**	100 6 110	444 444	•••	164 181	264 181	1
Akola	***		***	107		546 126	64b 126	
	Total				414	1,117	1,117	
Crwes a D a (/	ILLAGE FORESTS)							
Ventmai Akola	400		***	151 83	***	15	15	
	Total		*		10	24	24	
Total excluding Nimas	and Betul Divisions	980	39	1,43/	9	1,5 15	5,380	
CLASS * A " (Pri	manent Reserves).		•					
Nimer Betal	44 841	154 102	33	1 50g 1,079	•••		7,686 1,181	
	Total	256	21	9,188	101 107	54 401	2,867	
•	e ans vogications)				The second second second			
Mimar Retul	1 0	***	424 † #	9 P. 3-10	**	В	t., 8	
	at Beaution & free	***		***	***	8	8	
To	al Nimar and Betul Total Beter Circle	. 618	52 52	9,488		1,523	2,875 6,35£	
	PROVINCES AND BARAS		473	9,744	9	7,200	ap,572	



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		G	azing on pa	yment.					Numb	er of an	imals.		
	At	full rates incl	nding ordina nomadic ra	ry, comr	nercial an				At p	villeged :	rates.		
Division.				<u> </u>								Tees rec	el ved.
	Buffalocs,	Cows and bullocks	Goats and Sheep.	Camela.	Other animals.	Pees secered.	Buffaloes	Cows and bullocks.	Goats and sheep.	Camels	Other animals.	Actual.	Value at full rates.
ž	3	3	4	5	6	7	8	9	10	11	12	23	14
												Ro.	Rs.
norihern circle, C. P.						Rı.							
Mandla (North and Sooth ex- cluding Dhanwahl Range).	36,802	1,33,011	30,402		1,157	82,036	*5	95,266	*18		*4	5,956	23,82
ubbulpore-Narsinghpur ( inclu- ding Dhanwahi Range).	18,198	38,99\$	520	-	1,153	41,334		81,207				8,470	40,00
Damoh		30,813	23,615		441	47,683		135,403		,	,,,	11,569	\$3,9
Saugor	36,217	48,185	12,855		433	62,516		94,837			400	8,980	47,4
Hoshangabad	72,555	16,153	3,094		121	19,851	***	49,618	1,40			6,202	18,6
Scon:	25,982	66,787	8		336	61,266	1,429	97,625		110		9,510	43.7
Chhiodwara	24,345	74,092	32,502		316	92,745		\$7,379		•	-	7,571	28,6
Total	173,722	407,975	72 996		4,868	4,07,411	7,454	590,326	18		4	<u>17,8</u> ≤8	250,9
				-									
SOUTHERN CIRCLE.					168			., 6.9	476		83		33.
Balaghat	1	31,525	10.	"		28,700	1		410	1		3,535	
Bhandara		14,633	"	•**	178	21,187			, "		""	1,628	90,7
Bilaspur North Chanda		39,137			8	8,878	1		1	""		11,195	
Don'th Chambe	į	56,703	43,744	1	61	80,175	1	1		***		6,394	1 43,5
AT		1	41,967		93	43,455				-		17,396	
Raiper		36,620 56,394	16,191 211		22		1	99,121				8,209	
				-			<u> </u>	_	-		-		-
Total A Class	44,992	236,396	45, 334	411	506	1,369	23,378	372,125	410		#3	49,479	1,89,5
(в " "	5,941	36,678	\$5,80)		28	39,462	2,802	54,340			***	3,996	13,
Total Southern Circle	51,943	275,072	\$02,195		534	<b>\$,20,831</b>	<b>46,18</b> 0	405,463	410		82	\$3,408	9,03,1
Berar Circle, C. P.												Class *	, (Tim
Melghat	10 059	56,050	17,410		1,592	17,450	***		***		, ,,	***	} •**
Amraoti	1,404	26,675	410	,,,,	419	13,110		1 20		,	,,,,	8.4	4
inidan <b>a</b>	1,599	57.22	91		,	18,400		491				800	-44
Yeotmal	1,550	98,193	۰۰,	1		38,494		444	uı	-	,	419	bes
Akola	136	52,549	ank		•	14,959	637	ung			174	***	411
Total	15,548	281,595	17,501	241	1,600	1,17,413		41		,,,	***	Phá	441

		Grazi	ng free.					Nun	nber finni	nis.			
	By r	gut under Se	ttlement			Damae p	le site of GC	icrament, or	otherns th	an and a Se	ttlement		Grand total
aff 110es	Cove and	Cont 11	Cml	Other an mils	Value of 1904 of fail 1400	หิงติวใจ	Concrand tulk ci	Goal and short	C iraci .	Oti r Tumai	Value of for a trail rates	Iotal vaur of fees at full vatics	(n)) rates
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***						25	4,102		***		921	921	196,7
	101				tes		Sga		16		500	500	82,4
							\$0				93	23	101,69
		•31				, i				141			104 0
						165	7,256	20	63		2,790	2,/40	41,2
						11	436	,	,111		199	199	105,248
									•			,"	£25,4
				****		\$03	13,017	20		1**	1,432	4,43:	652,8
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			-	***	•••	130	1,596	303			110	310	57.
				***		31	212	29			180	ì	
			•			421	3,182				1,190	, I,190	\$0,
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					At full rate	ıs.							≜t priv	ıleged r	ates.			
Drvision.	ţ																Fees rece	ised.
		Buff	aloes,	Cows and allocks.	Gants and slicep.	Camels	Othe and made	.   1	Fees erarg.	Buffalocs.	a	nd	Goats and sheep.	Camels	Other mal	:	Actual.	Value at full rates,
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BERAR CIRCIE.—(	Conold.)								Rı.								Rs.	Re. Class "B"
Meighst									***	•••		.	•••					tm
Amraeti			1,032	2,124				\	579	••								***
Buldans		ļ	15	205	***	-			134			200	•••				13	75
Yeotmal			290	9,189	•••		.		3,615				400			-		•••
Akola				3,030					£,415				•				***	111
	Total .	.├-	1,778	14.548	***	:		<u> </u>	5,973			200		<u></u>			13	75
																		CLASS <sup>48</sup> G <sup>18</sup>
Meighat				***		.			***			••			.			
Аткаоц			30,170	125,131	107,7	31 .		144	\$7,784			••					***	
Bukiana			12,721	94,673	151,3	29	5	510	37,916	i		***		.	. ]		***	
Veotmal			75.758	*94.994	161,8	96	90	670	100,27			***	<b>,</b>	.		]	•••	•••
Akola		-	20,887	78,017	\$3,0	197	1	456	27,99			444		.			***	
	Total		149,536	590,815	474,	153	96	1,780	223,97	I		111					b17	, M1
Total excluding Betul,	Nmar s	ınd	166,433	886,958	491,	754	95	3,380	347,36	7		300					13	75
		Ţ																CLASS * A
Cordin	ary		32,518	33,82	4	440		17	27,54	ю		85,900					5,400	39,339
Nimar Noma	adic		1,570	3,80	,	129		11	4,4	58	ļ	100		.			***	
Comm	nercial		15,092	25,26		5		64	38,6	05	1	**					***	
(Ordin	iary		3.904	22,39	8 .			138	9,2	18		\$1,04	, .	.			3,19	19,14
Betal Nome	adic		15,580	40,41		.		84	41,6	¥6						601	141	
Com	nercial		***	***	.		**	494	***			lw		.			105	***
Ordin	ary		16,322	56,92	10	440		155	36,7	···		136,95	3 .	-	<del> </del> -		8,59	00 5244
Total Nam	adic		17,150	44,20		129		95	46,0		Ì	***				*21		
Com	mercial		15,092	34,26	50	5		64			.					***		***
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Betul Non	•		***			1,219	2			a1¢		***	}			***	100	"
	Total	.,,			_	t,68a	3			F74	_		-			<del></del>	,,,	
Total Nimer en	nd Betul		58 464	134,7		2,254	*	374				73ō, <b>9</b>	<del></del>	***	)»ı	***	8,5	معه مستعمد أيس
GRAND TOTAL BER			284,886	~		4,008	98	3,694	·			137,1			***	141	8,0	سندسمهمي وميث
Total Central P Berge.	nuviaciis	AND	4,50,551	1,734,7	.3 06	9,799	68	9,096	1,097,	355 27	,614	1,142,9	42	<b>428</b>	**	87	r <sub>e</sub> rg.l	5.04

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CLASS RESISTERS.		15	16	17	18	19	20	21	92	23	24	25	26	27	28
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			Area i	n acres,		Expen durh yea	ig the	ture	xpendi- from cement,	Re-	Total revenue from date	
Olyision.	Kind of plantation.	On 15t July 1912.	Added during the year.	Ey- cluded during the ye ir.	Area on 31 th June 1913.	Grea- tinn.	Up- keep.	Crea- tinn.	Up- keep.	during the year,	of creation of planta- tion.	Remarks.
I.	3	3	4	5	6	7	8	9	10	11	13	73
	NORTHERN CIRCLE.					Rs.	Rs.	Rs.	Rs.	Rs,	Rs.	
Saugor	REGULAR PLANTATION.  Bumboo plant nion maintenance and watering Nursery and diggine pits for plantation.	238	178	100° 44†	272	\$!2	a10	1,955		•	<b>89</b> 4	* Owing to recalculation of area.  + Plantation unsuccess ful.
Seoni	Teak Teak and Bambons		.,,		I JQI	(a) ‡ 	,	( b) 227	(c) 105	<b>**</b>	***	(a) Spent on tree plant ing. (b) Expenditure of Kurai garden upkeep Rs. 61.
	Sandal Plantation	3 603	178	244	637	555	, 	2,182	In5	""		(c) Expenditure pre vious to 1909-08 is no koown.
Mandla	CULTURAL OPERATION.	860	309	850	309	Noe	xpenditu	re.			346	
Damoh		<b>12</b>			13	107	35	10	14		***	Spent on main-
	Sowing Anjan seeds, 1,200 pits weeding and fencing in Mohli.	100	30	401	90	15	***	St.	••			t Unsuccessfol.
Saugor	Watering and feecing bamboo seculings in Mandle Jallandha Felling Series.		ŧ		1	13		13	***	111	μ,	, i.e.
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Chhindwara	anu anu			\$		***		25		***	N1	
11 to 1	, Total	983	539\$	, ota	4117	18	3	164	20			"
	NORTHERN CIRCLE.	z,587	517%	1,055	1,0489	<u>" 583</u>		2,346.	, 125	***		24e
North Chanda	R SOCIAR PLANTATIONS.  Sandal wood plantations	150			156	4.4	24		27	#n	10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Total Regular plantation	.156			156	71	24	•••	27		11 h	en 's 's '
Bhandara	Courtseat Operations.  Sowings of Tesk and Dhaman		نب	*	,	,	***	. 2	) and		1	2
Hilaspur North Chanda	Sowioge of Miscellaneous species Do-	i. m	8	£	1	**, 28,	\$5 ***	67	861	•••	100	
Shoth Changa Nagapi Waraha	Sowings of tank etc.  Do. do:	105	<b>30</b>	101	<b>91</b>	10 10 10 10 10 10 10 10 10 10 10 10 10 1	107	166 1,175	湖			
	Total Cultural Operations  Total Southern Circle	6.				1107	175	1.438	144			

Note — Descriptions despings, weetings, thin page, thin page, this page, the page of the last, stress Cultural operations encidented out the memorana was appended, so Checker No. 70 for a state of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of the page of t

FORM NO. 18.—[PRESCRIBED].—Artificial reproduction during the Forest year 1912-13.—(Concld.)

				Area in	actes.		Expen during yea	the t	Total es inre i commenc	rom	Re-	Total revenue	
Division		Kind of plantation.	On 1st July 1912,	Added during the year.	Ex- cluded during tre year.	Area on 30th June 1913.	Crea-	Up- keep,	Crea-	Up- keep.	venue during the year.	from date of creation of planta- tion.	Remarks.
1		3	3	4	5	6	7	8	9	10	ΙΙ	12	13
							Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
		BERAR.											
		RECULAR-											
Lkola	ſ	Bamboo plantation at Ycota	25	\ <b>.</b>	134	25		28	399	1,059	601	5,297	
LEGIE	·-{	Do. do, at Karanja	2	***	*** ,	2	14.1	85	97	554	•••		'
												<del></del>	
		Total regular plantations	27	***	***	27		113	496	1,613	601	5,297	
		Taunoya,											
		17 a land day of a said								,6-		'	* Transferred to Cul-
mraoti	{	Babul (sowings) Miscellaneous species	1,475	259	AIOI	1,534	""	"	1,019	469 304	111	,,,	tural operations.
	,	Elebrat drawd	1,568	140	***	1,708	".	23	1,742	895			
Buldana		Anjan (sowlegs)	1,374	153	***	1,507 10	8	•"	13	18			,
	"[	Teak and mixed species	64	441	***	64	15	40	33	40		.,.	
reotmal .		Mixed species			1100		٠			*10			† Abandoned since last
kola	***	B. b.d		139	54	978	223		1,412	44		\$54	year.
10	T q	Total Taungya Piantations	5,485	67 r	255	\$ <sub>1</sub> 901	240	63	8,141	1,770		554	eq
. v		CULTURAL OPERATIONS.					1	1	ļ				
fèighat	***	Miscellaneous			***	,		127		473	1 160		
h h	(	Babul	252	+101	1	353	67	104	745	586			
lmraotí	. "{	Experimental sowlage	16	7		22	85	33	386	ığı	74,		
**	(	Teak sowings	. 45	500	150	195	39	60	253	318		•	
		Babul and Nim Seedlings	3	134	134	3	4	2	21	13	h-1	•••	
	1	Aujan sowings	4	. 4	8		45	3	111	24		***	
Snldgna		Bamboo (Dandroenlamms strietus),	40	15		j. 51	34	40	220	54		\ 1 .	
ا ا	`	Bamboo planting	5t	Ph.	949 1	31	723	600	652	1,471			
2	Į	Sandal seed sowings	10	11		25	,			24			
, t		Catalpa sowing in the compound of Divisional Forest Officer's Government Bungalow.						•••	. 8				
ا مير واله	. (	1.	<b>'</b>		4				,	1.			
Cotmal	*	Experimental sowings of Bamboon.	120	45	ر 117 <sub>ر</sub>	• 48	530	335	952	780		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1000
	. (	Various hamboo plantations	. 16			16	t75	326	1,417	2,510	***	, , ,,,	
Akofa	- " )	Saudal sowings	-		19		92	1 1	155	-			
dimar.	M.		-	ļ. <b>"</b>	-	***	. 6	1	6		, "	179	10 mg 475
24		Gardon of fruit trees and vegetable containing also teak and bamboos.		. **	-	,	-	95	111	.420		1	1.30
Betul .	•	Miscellaneous	·	195					51	25			
	المارين المارين			-				-		-	- <del></del>	-	
الي أن المراجع من المعالمين المعالمين المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع		Total Cultural Operations	537	617	109	745	997	1,740	\$,134	6,85	4	170	
			ļ —		-	1/2	-		-		1	1	
		Total Berar Circle	6,040		554	6,673	r,237	1,916	18,771	10,230	50	r 6,030	可以不是一种
P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S Carl	State Same and State of		-	ري ري وي	9-	1	1			7	12. 11.	مسلم المسلم ا المسلم المسلم
13	4 7 30	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s								· de Intto .	· 64	1 6,03	· · · · · · · · · · · · · · · · · · ·
		GRAND TOTAL CANTRAL PROVINCE	7.935	1,847	1,814	7.078	41937	3,111	17.655	11 湯 14	60	***	

		l'imber in ti	ne toug	h; logs.			Timber in	the rough	poles.			Sawn	or squa	re timber	•
Division.	Govern- ment.	Pur- chasers.	Free Gmn- tees.	Right- hoders	Total,	Govern- ment,	Pur- chasers.	Frec Grantees,	Pight- holders,	Total.	Gov- ern- ment-	Pur- chasers,	Free Gran- tees.	Right- holders,	Tat
	1	3	4	5	6	7	s	9	10	11	12	13	14	15	10
	C. ft.	C. ft.	C. It.	C. It.	C. ft.	C. ft.	C. st.	C. 11.	C, ft.	C, ft.	C, ft.	C, ft.	C. ft,	C. ft.	C.
NORTHERN CIRCLE.															
Mandia (North and South excluding Dhanwahi Range).	1,458	27,329	16	,,,	28,803	8, 102	1,148,814	9,261	,,,	1,166,477	63	\$1,954		P01	54
Jubbulpore-Nursinghpur (including Dhanwaht Range).		4,876			4,878	24,300	459,804	1,710		485,814			,,,	••,	"
Damoh			,,,	••,	•••	223,461	15,360	469	nt.	139,290	1,539		,		1
Saugor		 1,154		,,,	1,254	20,003 17,643	215,614	2,440 3,801	) 	90,030	***	101,174	4.	•11	11
Sconl		41,866	42		4,4629	3,586	25,554	974		30,514		1,120			
Chhindwara	123	157	,,,	,,	280	25,378	138,621	5,450	,	169,449		,	-		
Totai	4,361	75,384	58		79,803	323,173	2,074,362	24,105	.,.	24,19,640	1,602	156,248		***	15:
SOUTHERN CIRCLE,											-				
I.—Reserv ed Carest.															
Balaghat	3,389	5,055		,	9,044	9,293	362,532	13,425	u•	385,248	366	60,152		Les	6
Bhaodata	1	100,380		 	101,333	11,285	1,433,142			1,447,643		.,,		.,,	:
Bilaspur  Noith Chanda	68,725	259,935 36,119	420	103	328,660	18,913	086,587		1	\$06,417	387	.,,	1**		
South Chands				,	66,345	1	"		jel tu	254,742				,,,	
Nagpur-Wardha	3,180				3,180	10,710	373,417	86	***	384,913	-			•••	
Raipur		1	94	471	117,811	46,771	790,588			846,955	98	7			,
Total A Class B Class	105,877 5,413	542,581 14,739	. 214	144	30,170	113,597 11,776	4,132,988 202,983		-	4,418,118	1	62,159		100	11.05
Grand Tatel	111,308	\$\$7,320	514		659,142	225,473	4,395,971	77,453		4,692,877	3,529	62,150	·	ated	ős.
	<u>, .</u>								(			120,117	المنا		
BERAR CIRCLE	, , , , , , , , , , , , , , , , , , ,		,			, ',	,							,	
Rejeven).	\$07			jes	507	116,594	77.355		65,505	259,474		130,414	45		> 1
America	διή	90,316	166	<b>11</b> - 2	20,993	- "	2,11	i em	1131	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	,,,,	-	400 400 400 400		
Bulling		pan in	•6,		ich 1 deur 2 i lie	<b>5,</b> 010	#7,358	184		24.547	410				
Trotings.	,		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 mg	e still and	18,418 7,305	. 16,571 63,538	3,87a 558	化 湖	47,859 71,402				4	() () () ()
Akte					60.41		ALTO IN	40.0			1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1				
	1194	30,116	60		(4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	140,318	189 817	3,014	61,845	(03,282		190,843			
						1000		be shown b	rus or referen	anii a		1	Table Services		

Timber and Fuel during the year 1912-13 and Agency of Exploitation.

ţ	***************************************	M <sub>10</sub>	scellaneo	ng.			To	otal timber.					Fnel.				
	Govern- ment.	Par- chasers.	Free Grad- tees.	Right- holders.	Total.	Govern- ment,	Pur- chasers.	Free Grantees.	Right- holders.	Total.	Govern- ment.	Pur- chaseis.	Free Grantees.	Right- holdern.	Total.	Total outturn.	Remarks.
	17	18	19	20	21	22	23	24	25	26_	27	28	29	30	31	30	.73
	C, R.	C. ft.	C. ft.	C. ft.	C. IL	C. ft.	C. ft.	C. ft.	C. ft.	C. ñ.	C. ń.	( it,	C. ft.	C. ti.	C. it.	C. ft.	
	27,111	481		<b>e</b> 11	27,592	37.034	1,230,578	9,277	,,,	1, 576,83)	100	673 179	187,484	141	767,771	2,037,662	
					g+1	2 <b>1,</b> 3 n o	451,682	014,1	114	490,692	6,810	1,423,109	157,339	<b>349</b>	1,586,958	2,076,950	
	***		-			325,000	15,360	469		240,819	443,535	223,926	***	100	665,461	907,290	,
	2,378				2,378	22,440	215,614	2,140		240,4)4		959,762	3,260		2791389	1,219,853	
	103	2,201		•	34,877	7,7643 7,007	205,876	3,801 1,016	)***	78,764	20,7×2 26,085	242,0-9	9,240	•••	274,001 765,172	§01,535	. '
	456	196	840 q	1/4	456	23,957	1,3,773	<+450		170,185	23,262	72 -, 165 399,521	3,448		426,231	843,936 9 <u>5</u> 6,416	ı
ř					67,804	329.381		24,163		2.725.0)1	5: 8,021	4,642,931	21.0.402			8,183,442	
	30,245	37,559		""	0,1004	1291301	3,741,553			2,723,0)7	3.0,011	4447,931	3)v <sub>6</sub> 493		514501,145	0,103,443	
	•																
				' m	٠.,,	13,046	430,339	13,425		456,810		1,273 344	133,330	164		1,857,589	
		*,*	***	1	1,364	12,238	1,5,33,521	3,216		1,136,828	21,150	\$,353,721 278,370	5,600	***		6,959,447 1,469,537	
	300	1,354	181	"	1,545	25,432	947,986 567,238	19,393		661,963	DLB, OZ	2,142,829	23,203			2,788,835	
	102			314	15,424	30,080	285,173	23,116		339,259	3,150	2,004,847	307,400		2,375,397	2,514,680	
	65		***	144	So	13,970	375:417	85		387,473	222,341	3,198,766	840	1+1	3,421,94	9,809,420	
,	1	* 394	1 841	,		59.435	. <b>8</b> 95₁700	9,690		951,851	117,176	1,100,835	233,952.	494	1,441,013	2,405,394	
¥,	356	3,243	, 181	'4* '	3,780	393,537	4,740,971	72,t28		£,130,636	411,152	13,494,083	544.927	419	14,450,16	19.586,798	
, i	125	14,508		ļ ~;	14,633	17,364	192,230		<b></b> ,	309,£84	440.	1,688,570	**	, 5.1	1,889,019	2,1 gB,603	
	482	17,751	181		18,413	340,991	5,033,201	72,128	, ,,,	51146,220	417,592	15, 383,662	\$44,927	·	1,63,39,18	21,785,401	
, de ,	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	400			***	<u> </u>	, '			<u></u>		,	1 1	-			
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		1:1"	' '							,	,	- 1			1		्रकार्यन स्ट्री
(4) (4)		ال درنگان			,All					11							
	The second					117,101	197,779	// ,**.*	65,525	. 3Bo,405	3,456	.225,300	131	524,200	1.1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
10 m	Carlon Co.		) )) 	1	41 ≪	2 617	20,216	160	l' '.	20,993	23,430		350		310,63		1953 美国富
7.3	<b>28</b>	937		4,046	7,195	2,038 18,418	26,571	933 12.870	13.5	31.747 47,859	11,158 85,507	1	1 , 7	12,800	1	C 107 - 10	
18 18 18 18 18 18 18 18 18 18 18 18 18 1	and the s	793			11/2/198	7,500	63,664	¥ . ``# `	2 mg	17 19 19 12 14 15	60,0,8				659,45		14 my 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2
が	40 Jan 37			1 台灣 1 日本 1 日本	No. of the last				W. M.	13 13 13 13 13 13 13 13 13 13 13 13 13 1		3		\$ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	4	1,405	4		7318	136,480	12.91		to saf	317.514	792,791	1336	3.86c	66.131	2/05/07	5 2,942,54	
100		icine it		red in Fi		La de la companya de la companya de la companya de la companya de la companya de la companya de la companya de El companya de la companya de la companya de la companya de la companya de la companya de la companya de la co	TOTAL		Marie Land	The second		ST SEC. A	2 2 2		1 3 de 1 de 20	The State	

	T	imber in t	he r m	h · la ;s.			1 imber in	the rough	poles.				or squi	re timber	•
Division	Govern- m nt,	Pur- thisere	Free Cron- teo	Right h lucis	Fot al	Gotern- u.c.m.	Par	Free Grynt es	Right-		Gov- ern- ment.		Free Gran- tees,	Righ- h Leis	Total
1	9	3	+	5	6	7	8	9	10	ιι	12	13	14	15	16
BERAR CIRCLII	c fi.	C ft,	C ft.	n o	C ft	11 )	t. fi.	C tt	C. ft.	C. ft	C. ft.	C. ft	C ft,	C rt.	C, ft,
HClass "B" (Grat, Reserves).						-									
Melsfurt		.,					291	,		291					
Amraoti		τ		-	;								,,		
Buldana							168			168					
Yeotmal							2,562		.	3,562					
Akola .										•••		***	"		
Iotal "		I			,	<u></u>	3,021	,,,	,	5,021					•
III.—Class "C" (Pastura ground)		¦	-												
Melghat					{ 		•••	,				,			
Amraoti		1,199			1,199	_	124							110	180
Buldana , .				111		342	15,110	21		15,473		.,,		***	108
Yeotmal	ļ			***	***	8,806	40,282	2,869		31,957		,,,		•14	,
A kala		<b></b>					3,432	1,216	.,,	4,648					
Total ,		1,199			r,1gg	9,148	38,824	4,306		\$2,078		,,,	-		***
Total Berar excluding Nimar and Betul.	t,124	28,416	160		22,700	153,476	231,662	7,718	65,525	458,351		120,424	-	"	110,4
Grand Total figures of 1911 12	345		   "		745	149,569	309,789	\$,739	10,580	481,736		111,415		7,416	x18,8
JClass of A" (Permanent Reserves).															
Nimar		p144				14,871	156,614	1,459		372,944					
Figures of 1911-13						9,124	249,846			259,120			***		214
Betni		35,157		į	21,151	13,774	83,627			97,401				***	
Figures of 1917-12 ,,		22,011			97,021	29.551	107,787	141		137,338		rar		Per	
Total Nimar and Beiul .		21,151	-	276	31,151	28,645	340,251	T,459		370,715					150
Total Break Circle	1,124	42,567	tóo	en en	43,851	182,121	571,003	9,177	65,525	828,726		1 10,434			120,4
Grand Total Central Provinces and Idear.	116,793	C74,878	733		709,196	730 567	7,040,236	104,715	65,525	7,941,243	2,231	338,831			344,0

Timber and Fuel during the year 1912-13 and Agency of Exploitation .- (Concld.)

CTANA MAY Y		eellancoi	Le # 52.00% 19.		1444	10 m	otalimbr.		, ac.	A quarter to	2.22.10,414	Fuel.				richial i u legimentaggizzania
Govern	Pur-	Int   Grane   tues.	Right-	Irtof	Governe	Pur-	lice Grantes.	Ruhl- hallets	Lotal	Govern- ment	Par- cha ers,	Fice Binters,	Right- bolders	lotal.	Total outturu.	Remarls.
37	15	19	33	31	22	  	 21	25	26	27	29	20	30	31	33	33
C. tr.	(. ft.	C, ft	, <sub>a</sub>	C II	r n	C II	(, fi	(. ft,	с. а.	f fc	С. H.	C. ft.	<b>C.</b> 11	с. п.	C. It	
									į							
••		n				*0 £			2 11	,	10,006	"		10,001	11,197	
an	"					1			1	2	2,371	••	•••	n 373	2,374	
•	"	•••				119	••		108	•-	1,730	<b>711</b>		1,330	4,498	
454		•••	ın.		***	2,163			°,50a	"	1,88*	akj	. mg1	1,5 a	7,144	
•••	411	"			"		•		'	50	6,613	,···		8 6u8	8 668	
P41	"				•••	11.27			7,072	Śa	<sub>11</sub> 107		,,,	\$1,1 <sub>2</sub> 9	34,181	
-												•				
914			<b>3</b> 01	**	<b>,,,</b>		,		•••		***	••		601	410	ı
m					411	1,119			1,199		167,111	1,200	443,000	616,311	6,17,510	
419	4,703		1,723	9,4°6	342	14,403	at	4,70 ,	'5,0 <b>5</b> 9	+ 595	72,485		J3,851	200,035	1,26,09\$	
•11	***	241	•••	***	<sup>6</sup> ,806	20,2113	2, trg		*1,9 7	(,003	2: 8,011		217,954	542,568	571,525	
***		Jer		•••		3,133	1,316		1,048	<b></b>	50,076	447	***	₹ <b>0</b> ,076	\$1,764	
*11	4,7 3	.,	4,791	9,5'6	9,118	14,816	4116	1,793	62,762	17,199	4,87,793	1,300	709,808	1,709,990	1,379,853	
28	7,259	7 +17	۲,5,۲	16,924	144,633	197,790	9,627	75~01	618, [09	203,483	2,155,109	<b>1,060</b>	1,7/5,019	3,736,174	1,954,581	
290	6 472	1,030	7,119	1 L 927	1\$0,19‡	427,680	6,814	31,124	615,443	2,30,386	x,/07,0 <sup>R</sup> 7	18	1,121,812	7,359,713	5 975,156	
,												aman m Vitaba				
3,404	£4,709	11,110	•••	3 <sup>q</sup> ,239	17,275	281,323	13,578		311,176	25,110	8/9,432	13/,500		1,042,042	1,353,218	
2,211	17,047	2,944	,	22,203	11,415	465,593	3,095		281,324	18,157	602,997	44,93 t		666,058	947,381	
1,481	55,677	11,473	49.	6P, 6 ts	13,255	163, 544			187,193	27,603		170,767		555,813	742,9 <b>9</b> 6	
\$,500 i	12,577	10,027	"	25,413	75,050	142,684	10,017	***	187,772	5,206	307,199	229,413		540,818	728,590	
3,885	8,0386	33.502	471	106,903	32,530	411,778	24,051	>==	498,359	59,713	1,227,875	<b>3</b> 17, 257		1,597,855	2,096,214	All desired in the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco
3,913	87,674	23,341	8,819	121,767	187,158	832,568	32,678	74,364	1,116,768	256,699	3'383'881	320,337	1,374,019	5,131,039	6,459,797	
34,630	142,984	33,522	8,839	209,984	88/,430	8,197,322	x28,90g	74,36;	9,188,085	1,207,212	23,408,577	t,r41,747	1,974,019	27,131,55	36,419,640	

in producing it being entered in cubir feet solld.
and which are only estimates, it being also noted in the latter case how the figures have been arrived at.

FORM No. 20. - [PRESCRIBED.] - Outturn of Minor Forest Produce during the Forest year 1912-13.

						Produce remo	eca or atilis	/Lile		-	
i- n,	Description of produce.	B) Governmen	t agency.	By purchase	19	By fice-gra	nts.	13 21ght-h	y older	l otal	
		Qu intily	Value.	Quantite.	V duc.	Quantity	Value.	Quantity.	V due.	Quantity	Value.
	g	3	4	ś	6	7	8	9	Io	11	12
	NORTHERN CIRCLE		Rs		Rs.		R		Rs.		Rs.
٢	I.—RESERVED FORESTS Bamboos Ton	5 190	1,131	9,393	46,109	91	509	***		9,674	47 749
İ	" Tons Commutation				5,465			4			5,466
-	, , , , , , , , , , , , , , , , , , , ,				2,1 -	-					
İ	, Leas	e	•••	867	4,640					867	4,640
١	Grazing			•••	4,65,269	.	4,432		***	***	4,69 701
-	Giana Tor	1,975	56,657	8,481	4,642	821	693			11,277	61,992
ģ	,, Commutation		,	1,100	4,736		••	•••		1,100	4,736
ž	, Les	ic	***	4,942	14,696	•••	•••			4,942	14,696
	Harta Tot	754	17,670	404			***			754	17,670
	" Leas	ie .	.,,	44	4,909		•••				4,909
ן ני	Lac To	1S 2	бід	, , ,	***				•••	2	619
	" . Ler	e .,		43	14,734	,,	••		***	43	14,734
	Mahua and Ton Achar.	i	••	29	131	2	19	1113	•••	31	150
30 1	, Lea	,e	***	49	4,301	***	,	.,	,,,	49	4,301
g	Hides and Horns. To	15 3	96		***		••			3	95
5	, Lea			38	7,504	,,,	•••			38	17,504
All Divisions of the Norman Circle, Canifal Albymees,	Other minor To		170	8,706	4.307	4,833	880	,		13,619	5 357
1	, Commutatio	n		2,204	24,197		***		,,,	2 204	24 197
	, Lea	9e		170	11,940				,,,	170	11,940
	Mineral pro- Tor	73	25	1,892	1,335		••	***	7334	1,965	1,360
	, Let	se	141	181	493				***	* 181	493
	Rusa grass				437				***		437
į	Total		76,368		6,19,845		6,533	·		111	7,02,747
	SOUTHERN CIRCLE I RESI EVED FOR STE										
(	Bamboos N	0 183,353	4,404	15,383,662	95,639	907,606	5,643	***		16,474,621	1,05,686
	Grazing Anima			861,079	2,74,239	8,465	2,498			869,544	2,76,73
1	Fodder grass To	ns 637	9,059	61,375	13,992	1	20		,	62,066	23,05
	Thatching grass. "	457	893	99,943	63,301		999			102,518	65,19
1	Hura To	1	72	1,621	19,988		100	.,,		1,622	20,96
iges.	Lac "	4	1,255	264	8,820	1	400		191	268	10,07
	Mahua and Char ,	10	63	741	2,271		12	1	***	761	2,34
TIPVINGES.	Hides and s		39	463	5,257	1	) pp		***	463	5,29
	Other minor pro- "	65	1,926	24,858	15,776	772	1,247	411	.,4	25,695	19,84
	Mineral products. Cft		***	1,059,425	a,804	38,963	379		494	1,098,388	3,17
Į	Total ,	***	17,691		5,03,087		10,691	-	4+1	art	5,31,45

FORM No. 20.— [PRESCRIBED.]—Outturn of Minor Forest Produce during the Forest year 1912-13. —(Contd.)

					Pr	oduce remotes	or utilized	l. 	<del></del>		
i,	Description of produce	R Governme	y nt agency	By parchase	rs	By free-gra	nts.	nght-h	olders	Total.	
		Quantity	Value	Quantity.	Value.	Quantils.	Value	Quantity	Value.	Quantity.	Value.
-	2	1	4	5	6	7	8	9	10	- 11	12
	nga ang adarbawah pulika nagapa				Rs		Rs.		Rs.		Rs.
	BERAR CIRCLE.		Rs		K.						
	ICLASS "A" (TIMBET AND GRASS RESERVES)			,							
_	Bamboos N	13 539	863	<b>2</b> ,043,911	32,890	1,850	33	268,400	3,980	2,327,700	37,775
Ì	Fodder grass To		3,860	63,748	56,668	4	3	2,720	988	67,000	61,519
1	Grazing cattle N	1		316,244	1,17,423	1,343	277	14,749	3,046	332 336	1,20,746 1,185
1	° ( Toi	15 30	40	860	τ 146	•••	300	-	-11	890	
	Rusa grass Lea:				12 409	•••		. "	100		12,409 250
1	Rusa oil lb	4			350	***	• • • • • • • • • • • • • • • • • • • •			""	596
	Lac See	.5 841	421	350	175	***		•**	,,,,	1,191 4,62,814	1,948
1	Mineral products To	12,970	94	71,816	1,236	443	86	377,585	542	46-362 lb4	331
	To	ns 342 lhs.	84	46-20 lbs.	247	***		***	***	2,158	508
1	Animal products.	0 1,467	515	68 <sub>1</sub>	93	***	"	***		3,115	8,600
ļ	Miscellancous To	ns 186	836	23 333	6510	26	29	570	1,225	3,3	2,045
	Minor produce Lea	se		•••	2,045		"	et.	***		1,280
	Myrabolams ,				1,280			- "-	9,781		2,49,293
io.	- Total		6,713		2,32,371		438		- 377-		
All Divisions of Defar pri	II CLASS "B" (GRA	155								4,208	1,441
	Bamboos I	Vo		4,208	1,441	•••	"	1	-	42,051	47,285
1011	Fodder Grass To	ons 41	3,285	41,634	43,991	S	1	9	"	16,086	5,985
	Grazing cattle 1	. Lok		16,086	5 985		***	•••	"	92	180
¥	Rusa grass { T	eno		92	180			•••	940		:57
		ase .,			157	1				23,361	282
	Mineral propucts T	ons		20,361		30	,	9	"	Tons lbs.	
	Animal products ,			lbs. 12240						12-240	13
		ons ,	111	468	1,090	,				468	
	Total ,				53,120	7		28		_	55,433
	III —Class "C" (Past grounds).										
	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	. l		125,59	1,16	7				125,592	1 362
		No				1				2,982	3,824
		Cons	3	1,216,48			15 93,2	SI 64,7	59 13,1	74 1,405,254	2,60,39
	Grazing cattle	No				4 101		ł			ĺ
	Rusa grass Rusa oil	ibs		10	1	ig •==		., ,		. 13	g 6

# FORM No. 20.— [PRESCRIBED.]—Outturn of Minor Forest Produce during the Forest year 1912-13.—(Concld.)

					P	induce icomic	ed or atilize	·d.			
-  OT	De explinant produce	Py Contrince	ta m(j	Իր լուժու		By free pra	u te	Ii rı fit h	n oldere.	Intal.	
	er en en en en en en en en en en en en en	Quatity	Valu	Quant to	Vile.	Quantity.	Value,	Quantity.	Value.	Quantity.	V iluc.
1	,	-	4	;	,	7	8	, –	10	11	13
	BFRAR CIRCLE.		Rs		Rs		Rs.		Rs.		Rs.
	III - CIAS, 'C'PA, rure Grounds)(Concld.)										
	Mineral products Tons	1 1	26	725,292	7,118	451	79			725 815 Tons . lbs	7,2 <b>2</b> 3
proper.	An in d products	6 lb	1	10	36		***	"	"	10-16	37
per.	M scellinious No.		•••	•	46	б	"		""	46	6
Pro	Minor produce Ions		155	7,922	1, 153	5	8	1,600	2,400	9,597	14,686
	Tot I		184		2,48,315		23,338	<u> </u>	15,574		2,87,411
}	Total Berar, excluding	,	10,182		5,33,806		23,794		25,355		5 93,137
	ICi 159 "A" (Per- Manent Riservis)		^								
(	Bunhoo No	45,27.2	152	4,681,299	30,535	78,990	556			1,778,562	31,243
	Ton-	323	3,417	56,629	46,370	3 3 9 8	4,247			60,350	54 034
	Forder grand Le 190				132					٠,	132
	Causing cattle No			331,013	130 0 15	5,236	1,823			336,249	1,31,868
	Rusa grass Ton	J	"••	2,580	4515		•••		•••	2,580	4,515
	Lusa grass Lou-				14 731	***				<b>4</b> -1	14,721
	Пина "		41		ვნი	"			•••		671
	Mahua 3,				1,174	}	7	'   '	•••	]	1,721
	Hides, horns and & Ton	s ,		ı	49			***		1	49
£	bones, (Lens		12		3,155	***	•••	,		•••	3,167
0.5	CII	100	20	180,316	384		1	1		180,316	_ 404
ig I	Minerals Ton			57	102				"	57	ton
Beta	Loase				315					•••	315
Nimar and Betal Divisions	LEC Lasve		18								18
mar	Miscellaneous Ton	s		903	893	462	324			1,365	1,217
Ž	Minor produce Leas		444		5,670	1	921			•••	6,591
	Commutation				3,208			***	ļ	•••	3,208
	Total	10)	3,660		3,42,438		7,878				2,53,976
	III.—CLASS "B-I".— (AVATLABLE FOR AGRI- CULTURE,)										
İ	Grazing cattle No		***	1,682	274		219	***	* st	1,682	   274
	Total			1 682	274	,,,	•	-		1,682	274
	Total Nimer and Betul .		3,660	Kes	2,42,712		7,878	3			2,54,250
	Total Berar Circle		13,842	tet	7,73,195	-	51,836	·	9,271	***	8,48,145
	Grand Total C. P. and Berans.		1,07,901	****	18,96,128		69,060	-	9,272	246	20,82,361

FORM NO. 21.—[PRESCRIBED.].—Account of Timber and other Produce cut or collected by Government Agency and brought to Depôts, sold locally or otherwise disposed of, during the Forest year 1912-13.

	Name	e of Division,			cor	Iniance at nimenociment of the year in forests and rule depôts.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at close of the year in forests and sale depôts.
	المتحدد والمتحدد المتحدد	1				2	3	4	5	•
					1	C. ft.	C. ft.	C. ft,	C. ft.	C. ft
		Timber.								
Mandla*	400	444	***			\$0,085	37,034	87,119	40,008	47,11
ubbulpore-Narsi	nghpur (b)	***	***			5,510	24,300	29,810	7,952	21,85
Damoh	***	•	***			20,475	225,000	245.475	128,020	117,45
Saugoi	***	***	***			2,594	22,440	25,034	19,909	5,12
Hoshangabad	414	***	109			924	17,643	18,567	16,967	I,Go
Sconi	110	***	•••		8 to	a2,451	7,007	29,458	24,882	4,57
Chhindwara	***	***	411		•••	44,409	25,957	70,366	39,339	31,02
	•		•	Total		1 (6,448	359,381	505,829	277,077	928,75
	F	UBL. (C. ft.)						•		
Mandla*	**1	***	***		•••	65,861	100	65,961	15,361	50,60
jubbulpore-Nars	inghpur (!)	***	***		***	6,096	6,810	12,906	7,046	1
Damoh	474	***	***		849	156,361	443,535	599,896	221,345	ł
Saugor	***	444	444			6,795	16,337	23,132	19,490	3,6
Hoshangabad	***	***	444			1,410	22,792	24,202	24,202	
Seoni	***	161	***		***	8,355	26,085	34,440	23,475	1
Chhindwara	***	***	494		""	3,070	23,262	26,332	6,783	
				Total	" _	247,948	538,921	786,869	317,702	469,1
	MINOR FORE	t Produce (V	'ALUR').		ĺ	Rs.	Rs.	Rs.	Rs.	Rs
Mandla*	***	***	***		417	253	18,953	19,206	18,02	
Jubbulpore-Nar	einghpur (b)	410	***			5,517	203	5,720	5,57	4
Damoh	414	al	•••		***	(a) 1,878	802	2,680	2,13	٠ .
Saugor	179	***	- 1		•••	2,148	412	2,560	2,46	9
Hoshangabad	194	***	111		41.	б	54,769	54,775	54,76	9
Seoni	***	**	***			<b>t</b> er	242	242	21	5
Chhindwers	***	***	***			44	987	1,031	8	7
				Total	**	9,846	76,368	86,214	83,27	2,
		Timber.				C, ft.	C. ft.	C. ft.	. C. f	t. C
Balaghat	*84	41.0	***		, J	6,926	13,046	19,979	12,7	
Bhandata	***	414	***			2,688	12,238	14,920	5 9,7	б <b>5</b> 5
Bilaspur	117	144	***			10,090	185,740	195,830	91,8	
North-Chanda	, 415	***	204		10	23,686	25,432	49,11	8 40.7	58
South-Chands	L 44+	•0	***			131,145	30,980	162,12	5 83,7	71 7
Nagpur-Ward	ha es	***	146		***	3,958	3 13,979	17,92	8 12,4	09
Raipur	bed	941	***		11)	27,799	59,48	87,28	4 42,0	76 4
-				Total	411	205,29	340,89	547,18	3 493,5	190 25

<sup>\*</sup> North-South Mandla excluding Dhanwahi Range.
(a) Due to inclusion of Rs. 998 on account of value of grass which was omitted from last year's balance.
(5) includes Dhanwahi Range also.

FROM NO. 21.—[PRESCRIBED].—Account of Timber and other Produce cut or collected by Government Agency brought to Depôts, sold locally or otherwise disposed of, during the Forest year 1912-13—(Contd.)

	1	Name of Division			Balance at communicement of the year in forests and sale depots.	Received during the year.	Total.	Disposed of during the year,	Balance in hand at close of the year in forests and sale depois
-		ľ				3	4	5	6
					C, ft.	C ft,	C ft	C. ft	C. ft,
		FUEL (C. ft	)						
Balaghat			•••	,	37,100	34,108	71,208	55,300	15,908
Bhandara	••	***	***	***	1,800	21,150	22,950	11,775	11,175
Bilasput	•••	***	445		112,125	2,827	114,952	113,452	1,500
North-Chanda	•	***	***	**	12,040	10,840	22,880	16,520	6,360
South-Chanda		11)	••	٠.	735	3,150	3,885	3,480	405
Nagpur-Waidha	14	48.4	**	•••	480	222,341	222,821	26,577	196,244
Raipur	100			**	97,248	117,176	214,424	153,624	60,800
	•		Total Fuel	**	261,528	411,592	673,120	330,728	292,392
					Rs.	Rs.	Rø.	Rs.	Rs
	M	inor Forest Pr	oducz.						
Bálaghat		614	498	•••	633	825	1,458	839	619
Bhandara	141	***	***		12	1,430	1,442	1,427	15
Bilaspur	w	Ma	***		309	1,679	1,988	1,756	232
North-Chanda	pet	***	•••	٠.	680	2,835	3,515	3,012	593
South-Chanda	***	110	•••	ttr	364	1,083	1,447	1,375	72
Nagpur-Wardha	***	*10	***	**	77	5,183	5,260	4,526	734
Raipar	170	щ	140	***	537	4,656	5,193	3,697	1,496
		Total Min	nor Forest Froduce		2 612	17,691	20,303	16,632	3,671
					C, ft.	C. ft.	C, ft.	C. ft.	C, ft,
		TEAK TIMBER,	,						
Melghat	441	641	144	<b>f</b> ***	3,698	116,787	120,485	116,771	3:714
Amraoti	***	464	94.9	••	5	405	410	405	S
Bridana	***	10>	414	.,	44.0	3,155	6,157	2,522	3,635
Yeotmal	***	• •	4na		25,759	21,613	47,372	29,867	17,505
Akola	,41	109	549	***		6,434	6,602	6,506	96
Nimer	101	Reg	***		8,721	14,871	23,592	15,868	7,78
Beinl .	544	at a	edq	***		18,774	28,702	15,236	13,466
			Total Teak timber	21,	56,281	177,039	233,320	187,115	46,205

FORM NO. 21.—[PRESCRIBED].—Account of Timber and other Produce cut or collected by Government Agency and brought to Depôts, sold locally or otherwise disposed of, during the Forest year 1912-13.—(Concld.)

	Nan	ne of Dryiston.			Briance at commune ement of the year in forests and sale de wits	Re gived during the year.	Total.	Disposed of during the year	Balance in hand at close of the year in forestr an sale depots.
		I			1	3	1	5	6
					C ft	C ft	C. ft.	C. ft	C. ft.
	Timeer	OTHER THAN TEA	ĸ						
Melghat	***	••			12	314	326	7	319
Amraoti	••	111			112	110	212	212	4.
Buldana	***	•	4		1,628	869	2,497	460	2,037
Yeotmal	***	111	•		2,142	5 611	7,753	6,518	1,235
Akola		***	•••	$\cdot$	392	4 33	825	825	6,01
Nımar	•	44.6	***		2,680	2,404	5,084	2,330	2,754
Betul	• •	***	***		36,959	1,481	38,440	<b>37</b> 339	1,101
		Total Timber of	her than Teak		43 925	11,212	55,137	47,691	7,445
			Total Timber		100 206	188,251	288,457	234,100	53 65 1
		Fuel							
Melghat	• •	•••	***		105	3,456	3,561	3 545	16
Amraott	•	141	•••		704	29,834	30,538	23,438	7,100
Buldana	••	***	***	**	23,454	23,036	46,490	18,155	28,335
Yeotmal	114	***			140,584	93,110	232,694	177,582	55,112
Akola	***	•	111		7,920	82,128	90,048	68,623	21,425
Nimar	***	100	***	24.	19,890	25,110	45,000	34,775	10,225
Betul	• •	••	***	•••	16,750	27,603	44,353	20,237	24,116
			Total Fuel	491	209,407	283,277	492,684	346 355	146,329
	Minor	FOREST PRODUCE			R#	Rs.	Rs,	Rs	Rs
Molghat	**	•••	104	•••	278	1,653	1,931	1,299	632
Amraoti	146		***	•••	117	604	72t	591	130
Buldana	***	166	***	•••	18	2,075	2,093	2,002	10
Yeotmal	•••	***	**1	•••	650	4,416	5 066	4 658	408
Akola	***	198	**	.,	36	1,777	1,813	1,813	
Nimar	****	1++	<b>,11</b>	••	51	44,058	44,109	44,069	40
Beini	410	494	***	••	30	72	102	74	28
		Total Minor	Forest Produce	••	1,180	54,655	55,815	54 506	1,329
		(Timber	Cit.		100,200	188,251	288,457	234,806	53 651
m	4	Fuel	59	••			492,681		146,329
1 OTAL BE	BAR CIRCLE	<b>\</b>			309,61	471 528	781,141	581,161	199,980
		Total Minor Fo	rest Produce				-	-	1,320
		(Timber	Cft.	•	452,91				[
GRAND T	otal Central Des and Berar.	Fuel	H		- 500		1,952,673		
		1			-	1,48,714		1,54,409	7:94

FORM NO. 22.—[PRESCRIBED]—Abstract showing the Value of Timber and other produce at Sale Depôts for the Forest year 1912-13.

		On ha	id it is nm n	cm ut 	()n	landitelse vers	of the	Differ	ence in luc	
Desertion et lint i tulother politic		No.	U it	\ u	No	C it	Value.	In freour of the year.	Agrinst the vear	Remuis.
1		3	3	4	5	6	7	8	9	10
				Rs			Rs.	Rs.	Rs	
"LRIHERY CIRCLE.										
Timber	,,,		146 148	t3 356		228 <sub>1</sub> 752	25,911	10,455	46)	
Fuel		191	247,948	4,173		460 167	10,536	6,464	*14	
Minor Prolite.	-			*9,846	•••		a 943		6,903	Due to inclusion of Rs 998 on account of value of grass which was omitted from
										was omitted from last year's form.
Totil				29:374	111	131	39,390	10,016	ne stationales surprises	
SOUTHERN CIRCLE						,				
Timber			43,298	51,749	4-1	14,226	14 374		37,375	
Fuel			330	11	•••	108	7	994	4	
Minor produce				325			515	190	114	
Total		b91	43,628	52,085	•	14,334	14,896	***	37,189	Net difference against the year Rs. 37,189.
berar circle.						Blan	, k.		) <del>(                                   </del>	
GRAND TOTAL FOR CENTRAL P VINCIS AND HERAR.	Ro-	dt	A11	81,459	11.3	434	34,986	10,016	37,189	Net difference against the year Rs. 27,173.

FORM NO. 23.—[PRESCRIBED].—Abstract showing the Value of Live and Dead-stock for the Forest year 1912-13.

				mencem	d at com- ent of the ear.	On t	nand at I the year.	Differenc	e in value.	
Descriptio	n of Live	e and Dead-stock.	-	No.	Value	No.	Value	In favour of the year.	Against the year.	Remarks.
	-	1		2	3	4	5	б	7	8
					Rs.		Rs.	Rs.	Rs.	
NO	RTHER	N CIRCLE.								
Elephants	•••	814		6	5,626	6	4 950		676	
Other live-stock	•••	244		6	98	8	151	53		
Dead-stock	***	12E		241	1,73,111	***	1,30,425		*42,686	*Owing to some of the Divisional Forest Officers having omitted to show the value of buildings in column 5 of the form.
		Total Northern Circle		414	1,78,835	",	1,35,526	.,,	43,309	
		N CIRCLE.	1				•			
Elephants Other live-stock	444 608	•		9 14	20,510	8 12	18,289		2,221	
Dead-stock		216			375		350	25	1,072	
2600 1900-	- •				Judiess	*11	3,03,150			
	5	Total Southern Circle	14.	,	3,25,107	444	3,21,789	•11	3,318	Net difference against the year Rs. 3,318.
I		CIRCLE.								
Elephants	m. File			5	6,942	• •	66.6		0.45	
Bullecks	144	111		6	187	15 8	6,696 309	122	246	
		Total	*11		7,129					
		4 2 144	"		7,129	13	7,005	122	240	
	DEAD-	STOCK.	Ш							
Buildings		***		416	1,53,757	,,,	1,69,089	15,332	4.5	
Mathematical and	other dra	awing instruments	***	•••	4,582		4,323		259	
Tools	***	***	***		10,209		9,553		656	
Furniture	***	111	;"		15,393		16,140	747		
Tents	***	717	•••		11,964		9,292		2,672	
Miscellaneous	144	144	***		11,193		9,107		2,086	
		Total	***	111	2,07,098		2,17,504	16,079	6,573	Net difference is favour of the year=Rs. 10 282
		Total Berat Circle	••	11	2,14,227	13	2,24,509	16,201	5,919	Anamas tras Tri AGN
G	FRAND T	otal C. P. and Berar	•••	.,,	7,18,169	2115	6,81,824	16,201	52,546	Net differenc against the yea Rs. 36,345.

### Timber and charcool ### ### ### ### ### ### ### ### ###	Budget	Heads.		Damoh Division,	Hoshangabad Division,	Jubbulpore Division.	Narsinghpu Division.
NORTHERN CIRCLE. Reverue.  Timber and other produce achorded from the Forests by Government Ageroy—  Timber and other produce achorded from the Forests by Government Ageroy—  Timber and other produce		tering the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3	4	<u> </u>
NORTHERN CIRCLE.  Reverue.  Timber and other produce removed from the Forets by Government Agency  Timber and other produce complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete complete compl			Ť		De.	Re	D.
REVENUE.	NORTHE	N CIRCLE		K3	K5.	1751	Ki.
-Timber and office produce removed from the Forests of Government Agency 4. Timber 4. Fivewood and charcoal 5.8 and subset minor produce 7. Grass and other minor produce 7. Grass and other minor produce 7. Total 1 7. 5.8 5.99 8. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7. 5.405 7.							
A. Timber A. Timber A. Enabeloon A. Enabeloon A. Enabeloon A. Enabeloon A. Enabeloon A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corresponded A. Corres			NCV_				
### 1 Timber ### 146   11   17   146   11   17   146   11   17   146   11   17   146   11   17   146   11   17   146   11   17   146   11   17   146   11   17   146   11   17   146   11   17   146   11   17   146   11   17   146   11   17   146   11   17   146   11   17   146   11   17   146   15   15   15   15   15   15   15   1	TIMBER AND OTHER PRODUCE REMOVED I	ROM THE FORESTS BY GOVERNMENT AGE	PMC1			163	108
A					401	145	54
1,084   54.78   5.465	c. Bamboos	•••	1			.,	3
-Timber and other produce removed from the Forest by consumers or publicables.  4. Timber		•	1	1,984	54,758	5,465	67
### Timber ### ### ### ### ### ### ### ### ### #		Total I		16,460	56,564	5,790	232
### A. Timber		ED FROM THE FOREST BY CONSUMB	RS OR				
S   Prevented and charceal   1,5,533   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,548   1,5,5				181	42,700	4,326	720
Grander and loading grass	b Firewood and charcoal		•••	230	6,484	13,533	1,791 1,55
### Commetation fees	c. Bamboos d. Grazing and fodder grass					32,416	18,99
### Commutation fees	e. Other minor produce	***					2,10
Total II St.Rat 99,102 64,155 25, 1.—DRIFT AND WAIF WOOD AND CONFISCATED FOREST PRODUCE 107 59 Total III 197 59 Total III 197 59 Total III 197 59			•••			1	610
L—DRIFT AND WAIF WOOD AND CONFISCATED FOREST PRODUCE  Total III	k. Commutation lees		- '''				
Total III 197 59  7.—Revenue from Forests not maraged by Government—  a. Duty on foreign timber and other forest produce  5. Revenue from shared and private forest  Total IV		Total II	•••].	81,821	99,102		25,79
A. Duty on foreign timber and other forest produce  5. Revenue from shared and private forest  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  3.44  7.555  3.246  1.6.448  73.277  27.  A.—Conservancy and Works.  Timber  Timber And other produce removed from the Forests by Government Adency  S. Timbor  S. Timbor  S. Timbor  S. Timbor  Total IV  Total IV  Total IV  3.264  56  Total IV  3.264  57  3.277  27.  A.—Conservancy and Works.  Timber  Timber And other produce removed from the Forests by Government Adency  3. Timbor  3. Timbor  5. Timbor  5. Timbor  5. Timbor  6. Sandal-wood  6. Grass and other minor produce  Total A-II  Total A-II  DIJ I  3. Timber  4.390  5.815  3.723  1.  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-II	L-Drift and waif wood and confisca	ED FOREST PRODUCE	•••]_		197	59	1.3 
A. Duty on foreign timber and other forest produce  5. Revenue from shared and private forest  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  Total IV  T		Total III	•••]	•••	197	59	***
Total IV	7.—REVENUE FROM FORESTS NOT MANAGED	BY GOVERNMENT—					
MISCRLIANTOUS—  a. Fines and forfeitures b. Refunds c. Other sources  Total V  Total V  Total V  Total V  Total V  A.—Convergancy and Works.  Timber  A.—Convergancy and Works.  Timber  A.—Timber  A.—Timber  A.—Timber  A.—Sanda-wood  Grand Total Prevenue  Total A-I  Sanda-wood  Grand Total A-I  Total A-I  Total A-I  Total A-I  DRIFT AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—  Timber  Total A-I  A.—Sanda-wood  Total A-I  Total A-I  DRIFT AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR  Total A-I  DRIFT AND WAIF WOOD AND CONFISCATED FOREST PRODUCE  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total	a. Duty on foreign timber and other fo	est produce		•••		1	
### ### ##############################	5. Revenue from shared and private fo	rest	•••	• • • • • • • • • • • • • • • • • • • •	***		
### A. Fines and forfeitures ### 27		Total IV	•••	***	111		111
6. Refunds 6. Cher sources 7 2,000 16 3.246 1.4 1.4 1.555 3.272 1.5 1.63.448 73.277 2.7  Grand Total V 3.244 7.555 3.272 1.5  Grand Total Revenue 1.01,525 1.63.448 73.277 2.7  A.—Conservancy and Works.  —Timber and other produce removed from the Forests by Government Agency—  a. Timber b. Firowood and charcoal 4.805 c. Embods c. Embods d. Sandal-wood d. Grass and other minor produce 2,395 42,546 1.390  —Total A-1 9,555 42,503 1.393 —Timber and other produce removed from the Forests by Consumers or 4,320 5.815 3.723 1.  —Drift and waif wood and confiscated Forest Produce	.—Miscrllanfous—						
Total V . 3.190 5.433 3.246 1./  Grand Total V . 3.244 7.595 3.272 11/  Grand Total Revenue 1.01,525 1.63,448 73.277 27/  A.—Conservancy and Works.  —Timber and other produce removed from the Forests by Government Agency—  a. Timber 4,805 1 3  b. Firewood and charcoal 4,805 1 3  c. Bamboos 101 1 3  d. Sandal-wood 101 1 3  d. Sandal-wood 2,395 42,546 1.390  a. Grass and other minor produce 2,395 42,603 1.393  —Timber and other produce removed from the Forests by Consumers or 4,320 5.815 3.723 1.  —Timber and other produce removed from the Forests by Consumers or 4,320 5.815 3.723 1.  —Total A-III 4,320 5.815 3.723 1.  —Drift and waif wood and confiscated Forest Produce		140					21
Grand Total Revenue 1,01,525 1,63,448 73,277 275  A.—Convergancy and Works.  —Timber and other produce removed from the Forests by Government Agency—  a. Timber 4,805			***				1,690
A.—Convergancy and Works.  Timber and other produce removed from the Forests by Government Agency—  a. Timber b. Firewood and charcoal c. Bamboos d. Sandal-wood a. Gress and other minor produce  Total A-I  Total A-I  DRIFT AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR FURCHASERS.  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-I		Total V	- 1	2.244	7,585	3,272	1,72
A.—Conservancy and Works.  Timber and other produce removed from the Forests by Government Agency—  a. Timber b. Firewood and charcoal c. Bamboos c. Bamboos d. Sandal-wood a. Grass and other minor produce Total A-1  Total A-1  Differ and other produce removed from the Forests by Consumers or  Total A-1  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11  Total A-11			ŀ				27,74
Timber and other produce removed from the Forests by Government Agency—  a. Timber b. Firewood and charcoal c. Bamboos c. Bamboos d. Sandal-wood a. Grass and other minor produce c. Grass and other minor produce c. Grass and other produce removed from the Forests by Consumers or c. Grass and other produce removed from the Forests by Consumers or c. Grass and other produce removed from the Forests by Consumers or c. Grass and other produce removed from the Forests by Consumers or c. Grass and other produce removed from the Forests by Consumers or c. Grass and other produce removed from the Forest by Consumers or c. Grass and other produce c. Grass and other produce c. Grass and other produce c. Grass and other produce c. Grass and other produce c. Grass and other produce c. Grass and other produce c. Grass and other produce c. Grass and other produce c. Grass and produce forest produce c. Grass and product forest produce c. Grass and product forest produce c. Grass and product forest produce c. Grass and product forest produce c. Grass and product forest produce c. Grass and product forest produce c. Grass and forest forest produce c. Grass and forest forest produce c. Grass and forest forest produce c. Grass and forest forest produce c. Grass and forest forest produce c. Grass and forest forest produce c. Grass and forest forest produce c. Grass and forest forest produce c. Grass and forest forest produce c. Grass and forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest forest for		GRAND TOTAL REVENUE	•••	1,01,525	1,03,440	73,277	
a. Timber b. Firewood and charcoal c. Bamboos c. Bamboos d. Sandal-wood a. Grass and other minor produce  Total A-I  Total A-I  Total A-I  Total A-II  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-II							
b. Firewood and charcoal c. Bamboos c. Bamboos d. Sandal-wood a. Grass and other minor produce a. Grass and other minor produce  Total A-I  Total A-I  Total A-II  Drift and waif wood and confiscated Forest Produce  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III		ROM THE FORESTS BY GOVERNMENT AG	ENCY-				ł
C. Bamboos d. Sandal-wood a. Grass and other minor produce  Total A-I  Sy.565  42,546  1,390  Total A-I  Sy.565  42,603  1,393  Total A-II  Total A-II  DRIFT AND WAIF WOOD AND CONFISCATED FOREST PRODUCE  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-III  Total A-I	a. Timber b. Firewood and charcoal		- 1				
Total A-I 2,395 42,546 1,390  Total A-I 9,565 42,603 1,393  Total A-I 9,565 42,603 1,393  Total A-II 4,320 5,815 3,723 1,  Total A-II 4,320 5,815 3,723 1,  L—Drift and waif wood and confiscated Forest Produce  Total A-III	c. Bamboos	***	•••	101	1	3	644 E47
Timber and other produce removed from the Forests by Consumers or 4,320 5,815 3,723 1, Total A-II 4,320 5,815 3,723 1, L. Dript and waif wood and confiscated Forest Produce			4		1		4
Total A-III 4,320 5,815 3,723 I;  L—Drift and waif wood and confiscated Forest Produce		Total A-I		9,565	42,603	1,393	4
Total A-II 4,320 5,815 3.723 1.7  L—Drift and waif wood and confiscated Forest Produce	TIMBER AND OTHER PRODUCE REMOVE	D FROM THE FORESTS BY CONSUM	RS OR		5,815	3,723	1,74
Total A-III  Total A-III  Duly on foreign tumber and other forest produce  B. Revenue from shared and private forests  Total A-IV  Total A-IV  Total A-IV  Total A-IV  Total A-IV  Total A-IV  Total A-IV  Total A-IV  Total A-IV  Total A-IV  Total A-IV  Total A-IV  Total A-IV  Total A-IV  Total A-IV  Total A-IV  Total A-IV  Total A-IV  Total A-IV		Total A-II		4,320	5,815	3,723	1,74
Total A-III  Total A-III  Duly on foreign tumber and other forest produce b. Revenue from shared and private forests  Total A-IV  Total A-IV  Total A-IV  Total A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-IV  TOTAL A-	L—Drift and waif wood and condiscat		-				
A. Duly on foreign timber and other forest produce b. Revenue from shared and private forests  Total A-IV  REMT OF LEASED FORESTS AND PAYMENTS TO SHAREHOLDERS IN FORESTS MANAGED			ŀ		·		
Buly on foreign tumber and other forest produce  b. Revenue from shared and private forests  Total A-IV  RENT OF LEASED FORESTS AND PAYMENTS TO SHAREHOLDERE IN FORESTS MANAGED  BY GOVERNMENT.	.—Revenue from Forests not manager		"	***	<u> </u>		
Total A-IV	s. Duly on foreign tumber and other for	est produce					***
RENT OF LEASED FORESTS AND PAYMENTS TO SHAREHOLDERS IN FORESTS MANAGED	b. Revenue from shared and private fo	rests	1				, 10°
RENT OF LEASED FORESTS AND PAYMENTS TO SHAREHOLDERS IN FORESTS MANAGED		Total A-IV	***	194		141	(1)
water water to the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the	.—Rent of Leased Forests and Patmen by Government.	ts to Shareholders in Forests m	1.		-	109	4
Total A-V	•	Total A-V	-				***

Scori Division,	Direction Division.	Chhindwaia Division	Singar 1915ian	Mandia Divisio ii	North Mandla Divisior.	South Mandla Division.	lotal.
6	7	- 8	9	to	11	12	13
Rs.	Rs.	Rs.	Rs	Rs.	R•	Rs	Rs.
1,472 144 8 	 (m. 111 112	1,817 53 30	745 164 10 	187 1 400  13,338	52 117 3,270	2	15,080 6,172 740  81,453
1,683	**	1,942	3,388	13,926	3,439	21	1,03,445
11,303 6,536 5,580 72,159 9,656	646 Dh4 646 11	22,483 4,918 6,411 1,09,306 4,698	17,472 13,020 5,853 76,026 6,264	21,030 543 4,022 85,904 6,058	2,094 178 1,759 813 95	11,545 22 1,762 1,639 454 	1,34,350 47,571 50,750 4,84,947 56,060
12,019	114		548	24,825	3,667	3,169	51,264
1,17,493		1,47,816	1,19,183	1,42 383	8,606	18,591	8,24,942
914	•••	114		190	4		560
		114	***	190	4		569
***	• •		40.6	•••	•••		*11
***	1.	411	***	404	***		4+ t
545 57 1,866	 1 32	280 55 11,956	100  5,689	3 89 3,880	·  1,829	400 287 1,000	1,538 2,542 39,817
2,468	33	12,291	5,7 <sup>8</sup> 9	3,972	1,829	1,693	43,897
1,21,644	33	1,62,163	1,28,360	1,60,471	13,878	26,310	9,72,853
222	100	140	***	<b>N</b>	111	4	2,54 4,80; 378
***		,,,	416 416 889	210	63		37
32	100	543	514	",196	5,293	411	53,95
254	( )	543	514	1,406	5,356		61,68
7,799	676	8,249	5,894	8,697	639	641	47,52
7.799	.,	8,249	5,894	8,697	639	641	47,52
***			,,	45			4
743	1>¢	44	441	45	***	,	
•••	-11	448 450	484	**	4.0	enü Uga	1 1 G 444
400 <del></del>	***	, 130	274		hen	Epu .	
)	711	349	424	)a)	***	144	9.1
,							

Bu iget f	ends		D amoh Division	Hespander de la la la la la la la la la la la la la	Juppulpore Division	Narsinghpur Division.
	ī		2	3	4	5
						n-
MODTHERN (	CIRCLL —(Concld)		Rs	Rs	Rs	Rs
	and Works —(Canald)					
-I IVE TOCK St 1"3, Tools and Plan						
	1 <del></del>			-5		
h Reed and keep of cattle	•	"	1,1 17	56 800	876	
c. Purchase of stere, tool and plant				1,329	149	298
	Total A VI	•• _	1,157	2 185	1,025	298
I - Contra actions and Buildings-		1				
a Roads and haid (	241		4275	13,846	1 554	200
Z Buildings c Other works	4. A44	.	3 440 1 002	7.258 852	1,689 330	134
	Total A-VII		8 673	21,956	3,573	342
II.—Opeani/ation, improve wene and p	VIENSION OF FORESTS-	-				<del></del>
			l ala	306	04.1	3 40
/ Compensation for land and rights	414 141		( 10(10	20,360	945	457
c Surveys d. Working plans	** **	***	•	***	• •	
e Sowing and planting f. Protection from the	111		3,137	375 6,678	3,879	114 721
g Other works	• •	•	1,364	3,679	852	162
	Total A-Vill		5,961	31,398	5,678	1,454
MISCFILANCOU -		-				
a Refunds	(3)					
b Law charges	17	•••	81			1
c. Other charges	N1	"" _	1,063	1,329	636	24
	Total A-IX	" _	1,144	1,329	636	25
To	TAL A.—CONSERVANCY AND WORRS	'" -	30 420	1,05,286	16,028	3,910
B,Est	ablishment.	1				
-Salaries-		- 1		1		
a. Conservators	•••			,		
<ul> <li>Superior officers</li> <li>Subordinate forest and depot establis</li> </ul>	hments	***	7,710 16316	18,760 19,137	9,600 17,165	3,196 4,244
d. Office establishments  Deputation and special allowances	444	:"	4,296	5,053 676	4,879	2,007
	Total B-1	-		43,625	31,645	944
	Bonus of half month's salary	-	*8,322			
Manusana kaa assassa	Dongs of man month's sainty	" -	42	10		***************************************
TRAVELLING ALLOWANCES-						
a. Conservators  5. Superior officers	49% 44%	441	1.177	2,374	935	51
c. Subordinate forest and depot establi d. Office establishments	shments	•••√	1,173	3 024	2,553	59
		" -	257	473	253	
	Total B-II	" -	2,591	5,871	3,741	1,217
.—Contingencies—						
a. Stationery b. Carriage of tents and records	m.	•	<b>52</b>	108	35	30 56
C. Renis rates and taxes	***	•••	781 74	1,305	959 94	
A. Pay of police guards  s. Official postage	10g 10g	417	329	793	200	140
f. Sundries	Ptp	•••	3,374	900	299 868	Şi
	Total B-III		2,610	3,136	2,255	1,24
	Total B — Establishments	.,,	33 565	52,643	37,641	11,99
	nd total of expenditure	.,,	63,985	1,57,929	53,669	15,81
GRÅ	NN YOUND OF SYLPHALITORE					
GRÁ	Supplies of Desict	-	37,540	5,519	19,608	11,02

of the different Divisions during the Forest year 1912-13.—(Contd.)

Sconi Division	Direction Division.	Chhindwara Division	Sangor Division.	Mandia Dission	North Mandia Division	South Mandla Division.	Total,
6	7	8	9	10	11	12	13
Rs.	Rs.	Rs.	Rs.	Rs,	Rs.	Rs	Rs.
<b></b> <b>36</b> 53	• <b></b> ნი <u>9</u> ვნი	 642 284	 963 1,249	 542 407	•••	 128 140	5.44 4,59 5,44
89	969	<u>ე</u> ინ	2,212	949		268	10,0
908 1 938 1,512 4,358	  goo	3,623 1,162 492 5,277	1 560 2,127 801	708 1,015 123 1,846	\$5 950 60 1,035	347 2,303 175 2 845	26 98 22,03 6,25 55,27
1,175   64 6,118 590	010 1 4 2 6 1 6 1 6 1 6 1 6 1 6 1 6	37  35 5 8 1 0 0 0	1,696   581 4617 2,540	1,754  31 2,900 264	<sup>6</sup> 35  583 45	228  74 2,365 427	8 20 20,3 1,2, 33,02
7,947	400	2,752	9,454	5,009	1,263	3,094	73,6
 36 981	: : 41	 6 317	 77 937	, . 4 1,341		34	 20 6,74
1,017	41	323	1 014	1,345	44	34	6,9
21,464	1,910	18,070	23 576	19,297	8,337	6,866	2,55,10
7,325 17,329 4,550	17,884 1,645 154 10,588	 13,200 15,852 4,576	 17,658 21 659 4 403 1,225	 13,816 17,587 4,419	 1,110 3,627 758	 5,520 3,551 1,200	17,81 99 5- 1,36 92 46,71
29,504	30,271	33,618	44 945	35,822	5,495	10,331	3,03,0
3	404		***	8	*15		***************************************
1,024 2,874 505	1,221 137 2 604	1,258 1,848 478	2,596 3,174 273	1,281 2,275 162	 326 494 127	1,395 632 199	1,2; 13 0 18,6; 3:4
4,403	1,964	3,584	6,043	3,718	947	2,226	36,3
44 670 48	30 1,107 34	52 716 146	49 1,259 15	25 765 28	1 288 	758 14	4 9.1 4
469 1,563	757 1,610	443 T,618	613 1.679	734 842	97 86	219 21 <b>4</b>	4,8 11,2
2.794	3,538	2,975	3,615	2,394	466	1,209	26,2
35,704	35 773	40 <sub>1</sub> 195	54,603	41,942	6,908	13,766	3 65,6
51, 68	37,683	58,265	78,179	б1,239	15,945	20,632	6,20,8
63,475	-37,650	1,03,898	50,181	99,232	-1,367	-322	3,52,0

		Budget Head	a				Direction Division.	Balaghat Division,	Balaghat School Division,
	Things of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the	ı					2	3	4
			-				Rs.	Rs.	Rs.
	so	UTHERN	CIRCLE.						
		Revenu	2						
-Tin	SER AND OTHER PRODUC AGENCY-	E REMOVED	FROM THE	FORESTS	BY GOVERNM	ENT			
		***		4.			35	1,422 428	404
C.	Firewood and charcoal Bamboos	191		***			\$ e \$	2	***
	Sandal-wood Grass and other minor pr	roduce		***			***	113	**
•	Crass and Gener minos pe				Total I		35	1,965	
-Ti	MREE AND OTHER PRODUCE PURCHASERS—	REMOVED	FROM THE	FORESTS B		OR			
ß,	Timber	***		***			•••	32,692	•••
	Firewood and charcoal Bamboos	414		***		***	994 101	15,858 29,764	***
d	Grazing and fodder grass	49. 4		•••			*11	32,545	•••
i.	Other minor produce Other items	***	•	10.5		***	*10	27,005	***
g.	Commutation fees	194		•49		"	**	4,589	
					Total II	**	,•	1,42,453	)··
I.—D	RICT AND WAIF WOOD AND	CONFISCATI	D FOREST	PRODUCE		•••]	***	***	***
					Total III	***	494	•••	919
/,—R	evenue from Forests no	t managed	by Govern	Hent—		-		•	
ø.	Duty on foreign timber a Revenue from shared and	nd other for	est produce			•••}	***	<b>)</b>	
<i>v</i> .	Veneune thom suggest with	r brivace too	ests	140	Total IV	***	***		111
1.0	iscrllaneous				YOUNT 3 A	***	610 		
	Fines and forfeitures								
å.	Refunds	***		***		190 190	150	494	17
e,	Other sources	111				•"	224	8,653	512
			_		Total V	***	374	9,147	529
			G	RAND TOTA	L REVENUE	•••	409	1,53,565	529
		Ērpeņdi:	Turs.						
	dem	Conservancy	and Work	s.					
—Ţŗ	Agency— Agency—	CH REMOVE	) FROM TH	E FORESTS	BY GOVERN	MENT			
ā.	Timber Firewood and charcoal	441		***		***	100	86 48	111
4.	Bamboos			***		-40	bré	•••	141
ď,	Grass and other minor p	roduce		444 744		**	***	91	***
·	1 •				Total A-I		104	225	***
L-T	imbre and other produc Purchasers—	CE REMOVE	) FROM TH	e Forests	BY CONSUME	RS OR	167	9,740	#9 th
					Total A-II	***	167	9,740	***
IL—I	driet and ware wood ari	d Confiscat	ed Forest	PRODUCE		**	410	•	111
					Total A-III	112	* *		***
[V,]	Revenue from Forests 1	edakam tor	d by Gover	LHNENT -					
g.	Duty on foreign timber:	and other for	rest produce			• • •	934	•••	***
-0-	Revenue from shared as	og private fo	itere	***		**	197	194	
					Total A-IV	340	***	9+3	
	Andreas alle and annual sees				Tonnan	1 W . A.		1	1
7,R	LENT OF LEASED FORESTS A ED BY GOVERNMENT—	inempat du	IS TO SHAP	KHOLDFES:	in poeests k		17)	ths	**
<b>V.—</b> R	ed by Government—	inbryag dri	TANG DE	Kholder:	Total A.V	1 1			

### of the different Divisions during the Forest year 1912-13.—(Contd.)

Bhandara Division.	Bilaspui Division.	North ( handa Division.	South ( handa Orasson.	Nagpur-Wardha Division	Raipur Diwision.	Total.
5	6	7	8	9	10	11
Re	R3.	Rs	Rs.	Rs.	Rs.	Rs
120 87 1  1,242	6,060 59  1,679 7,798	9,205 113 29  2,573	34,736 8 5  416 35,165	516 545 37  4,343 5,441	2,201 1,743 2,597 1,162 7,893	54:385 2 983 2:771  11,528 71,667
40,581 27,120 10,159 16,445 11,035	14,618 5,619 19,468 10,512 7.814 	26,025 18,358 17,211 64,617 14,193	63,9a6 1,749 3,004 49,865 5,669  5,365	33,108 24,802 8,458 83,829 16,348	14,489 7,529 4,656 30,722 34,156  7,672	2,26,319 1,01,055 92,720 2,88,535 1,16,220
1,05 340	58,051	1,41,304	1,29,558	1,66,545	99,224	8,42,475
9	191	28	91	,,,		319
9	191	28	91	***		7 ° 5.
844 418	918 918	***	200 200	a) 0 000	144	40.4
***	***	441	200 			
179	6 2	 20 4,762	 11 6,193	*** 83 2,650	797 35 6,529	982 812 37,158
4,193	3,442	4,782	6,204	2,733	7:36x	38,952
4,372 * 1,11,171	69,490	1,58,034	1,71,018	1,74,719	1,14,478	9,53,413
" 56 "	3,064	1,328 1 65	9,783 5 2	27 909 5	804 656 1,783	15,092 1,684 7,855 9 8,850
490	371	65 9 1,265	364	5,865	403	27,490
546	3,444	2,668	10,154	6,807	3,646	42,880
4,345	1,813	8,291	5,232	7,881		
4,346	1,813	8,291	5,232	7,881	5,410	43 980
41340	11013	21		41)		21
10	uet	21	,			
***		101	a++	900	038 274	det
40}		14 P	,		4.1	400
***	***	148	,	704	Pêq	•
50 900	•••					

	Direction Division.	Balaghat Division.	Balaghat School Division.
	1	3	4
	Rs.	Rs.	Rs.
	1	1	
		97 118	
44,	207		180
	474	972	1,172
.vi	රජා	2,063	1,352
	]	20 637	348
•-	. 707	5,803	2,236 199
<b> </b>			2,783
-		10,110	
::\	:	1,163 6.028	•••
•-		11	
']	175	149	" ნივ
	}		
v111	194		603
İ		90	
***	133	1,774	" 351
-1X	133	1,863	351
orks "	1,002	48,144	5,089
	20,225	•••	141
190	6,749	23 507	5,284 2 417
***	10,165	7,265	1,187
*	3,044	*** ***	2,56;
B-I	41,104	50,988	11,449
-			
	9.010		
*	332	2,540	486
411 784	103 600	3,021 797	2,000
B-11	3 054	6,358	2,602
	14	62	20
**	1,043	2,922	594
682 F41	413		90
***	812 1,069	826 2,083	50 756
			بنشب وخوافوه فيالمان المارات (١٩٠٨)
B-III	3,063	5,ინი	1.870
- {		5,969 64,315	1,310
B-III BATS	3,063 47 221 49,123	5,969 63,31 5	1,510 15,561 20,650
	VII	Rs.  Rs.  207 474 474 681  727  VII	Rs. Rs. Rs

of the different Divisions during the Forest year 1912-13.—(Contd.)

Bh aid ir i Division	Bilaspur Division,	North Chanda Division.	South Chauda Division.	Nagput-Wardha Division	Raipur Division.	Total.
5	6	7	8	9	10	T1
Rs.	Rs	Rs.	Rs .	Rs.	Rs.	Ra.
 589 418	597 500	1,022 307	25 1,773 851	 391 1,280	1,026 1,634	2 6,87 7,60
1,007	1,097	1,329	2,649	1,671	2,660	14,50
2 <sub>1</sub> 137 4,336 3,809	5,140 3,630 669 9,439	5,762 2,747 1,441 9,950	4,541 3,925 3,259	3,613 4,833 1,300	6,210 4,747 2,303 13,260	38,383 32,317 15,32 86,028
		#*************************************				
331	125	<b>a</b> 739	1,340	1,644	971	8,313
  18 4,810	364 56 4,573	" 118 50 11,457 1,597	 623 668 7,636 3,824	7 274 264 4,111 469	180  8,959 364	6,05, 1,63; 1,88; 48,05, 8,81
5,332	5,266	15,961	14,091	6,669	10,499	74.75
1,141	3 460	3,478	1,263	319 1,612	46 1,520	46. 11,73
7,146	463	3,480	1,263	1,931	1,566	12,19
22,659	21 522	41,700	45,114	34.705	37,041	2,57,87
5,056 12,449 4,459	 8,450 10,568 4,570 	9,808 22,623 6,843 515 18	 9,850 14,351 5,943 344	 12,453 18,883 5,757	18,210 19,253 7,349	20,22 99,36 1,20,88 53,53 7,26
21,964	23,598	39,807	30,438	37,104	44,812	3,01,31
 1,372 1,881 312	1,58 <b>5</b> 1,923 263	 2,575 2,591 838	 2,394 2,293 548	7,910 3,304 412	 3,481 2,183 572	<b>2,</b> 01 1 <b>6,6</b> 7 18,29 4,48
3,565	3,971	6,004	5,235	4,626	6,236	41,4
28 860 93	32 876 374	67 1,889 30	58 1,363 70	41 1,725 110	3,108 125	3 13,3 1,0
356 746	466 1,149	<sup>9</sup> 57 1,172	735 2,822	530 1,095	. 719 1,771	5,3 19,6
2,083	2,897	4,015	5,048	3,502	4,773	32,8
27,612	30,266 \$1,7 <sup>8</sup> 8	49,825	40,771	45,232	55,821	3,75,6
50,271 60,900	\$1,700 17,702	91,526 66,508	85,885 85,133	79:937 94:782	92,862 21,516	5,33,5 3,19,9

		Budget Heads			Direction Division.	Al ola Division.	Amr toti Division
	withings of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	I .	nam bewengstag, aantweenst v		2	3	4
	Marinin and Marining Research and Assessment and Assessment and Assessment and Assessment and Assessment and As				Rs	Rs	Rs
	В	BERAR CIRCLE			Ks		
		Revenue					
-Tin	BUR AND OTHER PRODUCT	E SEWO/ED NEOR THE	Forests by G	OVERNHENT			
a. b	Timber Fire wood and charcoal		**	***	***	672 2,586	5 <u>2</u> 2,440
0.	Bamboos	•	***	•		602	180
d. e.	Sundal-wood Grass and other minor pro	duce	***	••		1,185	286
•	in the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	,		otal I		5,045	2,958
T1	NECP AND OTHER PRODUCE PURCHASERS—	REMOVED FROM THE F	orests by Con	RO SARMUS			
a.	Timber	11	••			7,376	4, <b>207</b> 11,068
	Firewood and charcoal Bamboos	***	***	••		17 411	1
đ	Grazing and fodder grass		***	•	•	78,705	1,04,05° 11,309
f.	Other minor produce Other items	***	444 448	•		4,570	••
5.	Commutation fees	***		••			**************************************
			To	tal II 🔐		1,08,128	1,30,637
L-I	COM GOOW TIL V GEN THIS	CONTINCITED FOREST PE	RODUCE	***		۵	17
			Tot	al III .	***	2	17
7.— H	CENTUR TROM FORESTS NO	1 WANAGED BY GOVERNA	(EHT				
a	Duty on foreign timber an	d other forest produce	141	•4			***
ò	Revenue from shared and	private forest	*** T-1	-1 177	***		401 
М	iscellaneous		101	21 I V	***		
a	Fines and forfeitures	464	•••			237	99
ь	Refunds	***	***	••	12	50	25 <b>5,2</b> 17
	Other sources	*#	•111	**	1,516	5,243	
			To	tal V	1,528	5 530	5,341
		Gı	AND TOTAL REV	ENUE ,	t,528	1,18,705	1,38,953
	A C	onservancy and Works.					
-Tn	MBER AND OTHER PRODUC AGENCY—	E REMOVED PROM THE	FORESTS BY	Governmen	1		
a.	Timber		***	•			***
b.	Firewood and charcoal Bamboos	41>	100			133	533 60
ď	Sandal-wood	•••	•••	•		286	***
4.	Grass and other minor pro	duce	***		***		
, Mr	imber and other produ	and property and an are			***************************************	919 6,234	593 10,570
, 1.	Purchasers,	CE REMOVED FROM THE	E DOMESTS BY C	unsumers e	)R	0,2,4	
	3 <del>/</del> /			uí A-II	•	6,234	10,576
1 1	ina doow tiaw dya trinc	CONFISCATED IQUEST		1 4 127	***************************************		
	Revenue from Forests no	ot managed by Govern				4	
استدخا	······································				475	***	4,000
		IDO OLDEL IDEEL DIGGIES			1	The Charles	140
a	Duty on foreign timber a	d private forests			*		1
å	Duty on foreign timber a Revenue from shared an	d private forests	rou Tou	d A-IV	111		
å	. Duty on foreign timber a	d private forests  s And Fannents to	rou Tou	d A-IV	111	* e A 494	23,

Beini Division.	Buldana Division	Melghat Division.	Numer Division	Yeotmal Division	Total	Grand Total Cepts Provinces and Ber
5	6	7	8	9	10	ri .
Rs.	Rs.	Rs.	Rs.	Rø	Rs.	Rs
2,376 10 3	635 759	1 601 207	2,127 55B 2	4,538 6,127 16	11,997 12 <i>6</i> 87 803	81,462 21,842 4,314
352	r,837	1 640	45 908	9,973	61,231	1 54,212
2 741	3,281	3 418	48,591	20,654	86,718	2 61,830
31 070 4,046 19,888 59 408 20,736 	11,405 11,914 3,160 69 698 2,126	50,234 7,659 20,164 23,859 16,061	54,944 20,636 10,647 1,17,299 11,179	17,119 21,106 1 702 1,75,544 12 194	1,86,214 93,839 64,628 6,28,565 78,175	5,46,883 2,42,465 2,08,098 14,02,047 2,50,455
1,39,216	08,303	1 35,076	2,15,864	2,27,665	4 368	73,25 <sup>9</sup> 27 23,206
26	152		175	2,059	10,55,789 B,431	3,319
26	152		175	2,059	2,431	3,319
494 848	· .	"" 651 651	440	*** c	"" 651 651	651 651
"'' 8 8,387	61 2 7,270	38t1 9	1,247 9 9,383	135 501 6,511	1,779 616 47,638	4,299 3,970 1,24,613
8,395	7,333	3,820	10,639	7,447	50,033	1,32,882
1,50,378	1,09,069	1,43,895	2,75,269	2,57,825	11,95,622	31,21,888
411   983	  1,415	273 168  	68   43.397	46 465   2,710	706 236 193  50,505	18:344 6:725 2:426 9 1:13:309
1,394	1,415	1,655	43,465	2,199	51,640	1,40,813
8,573	4,547	2,201	11,145	7,613	50,883	1,41,386
8,573	4,547	2,201	11,145	7,613	50,883	1,41,286
***	430	205	***	X1	11	77
****			254	11	II	77
***	617 210	***************************************	839 004	48>	864 184	
4 ° J.		.,	148	B B	F75	
300 Maline granders glaves	414	FRS	\$89 	kee		
144	44+	41.	*19	4.0	914	,,,

		Budget Herds			Direction Division.	Akola Division.	Amraoti Division.
		1	anne an anne de paralleten qu	<del> -</del>		1	4
بلد وينابئ ويناس جازيون مدرسا		-			Rs	Rs.	Rs.
	BER	AR CIRCLE (Concla	<b>'</b> )				
	A,-Cons	roancy and Works—(C	encid)		ļ		
I.—LIVE-STOCK, S.	corrs, Tool	S AND PLINT -		İ			
a. Purchase of b. Fred and ke		N	•		840	• •	414
c. Purchase of	-tores, tools	and plant	•••		122	865	330
			Total A-V i		962	865	330
IICommunicat	ions and Bu	JIIDINGS-					
a. Roads and			44		411	5,919	1,517
b. Buildings c. Other work	3	648	ko5 1			2,894 1,642	3,422 326
			Total A-Vil	,.,	14	10 455	5,265
II Onessusses	ny inabana	Mana ing paradies -	E Concess	-			
III.—ORGANIZATI g. Demarcatio		O NOISHEIXE GNA 1NEMS	E 1. OKF212-mm				* ***
b. Compensati		· · · · · · · · · · · · · · · · · · ·	111		***	755	1,077
c. Surveys d. Working-p		141	•1 •11	***	208	20 16	***
e. Sowing and	planting tom fite	**	144 847	*	ž.	935 1,427	312 1,066
g. Other work		•	440	•••		2,486	109
			Total A-VIII	-	209	5,639	2,564
X.—Miscellaneo							•
a. Law charge	164 52	41) 4	44.1 *##		101	677	1,066
			Total A-IX	-	10:	677	1,110
		Torus A Co	HSERT THEY AND WORKS		1 285	24,789	20,441
		B.—ESTABLISHMENTS.		-			AND PERSONS AND
-SALARIES-							
a. Conservate	ors	101	***		18,366	410	•••
b. Superior o	fficers	depôt establishments	400	::	*11	5,916	5,586 8,667
d Office esta	blishments and special	*	***	***	3,252 9,257	8,80 <b>6</b> 4,630	4,643
e. Deputation f. Bonus of h	alf month's	pay	400		338	7 10	1 kg
			Total B-l		31,213	19,355	r8,896
TRAVELLING	Trowance	<b>!</b>		-			
a. Conservate		***	an.		1,722		
b. Superlor of	ficers	depôt establishments	***		••	1,181	1,194
d. Office esta	blishments	epot establishments	44+		137 590	1,901 311	1,444
			Total B-II		2,449	3,393	2,959
II.—Contingenc	<b>185</b>				,	And in contrast of the contrast of the contrast of	
a. Stationer		144	616	,	496	69	00
c. Rents, 14t	f tents and i	records	***		1,740	188	33 600
d. Pay of po	ice guards	£61	44+ Eqs		111	359	148
f. Sundries	HAZC.	#67 410	***	***	835 1,229	379 1,136	416 589
			Total B-III	**	3,700	2,824	1,786
	•	To	ial B.—Establishments	.	37,362	25,572	23,641
	,	GRAND TOTA	L of expenditure		38,648	50,361	44,082
			Surplus of Bericit	100	-37,120	68,344	94,871
			DUNEAUS OF WELLOIT	649			

of the different Divisions during the Forest year 1912-13.—(Concld.)

Betul Ilvision.	Bukiana Division,	Meighai Division.	Nimer Division.	Ycotmal Division	Total.	Grand Total Centr Provinces and Berr
	6	7	\$	9	10	11
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
716 505	330	1,376 395	140 1,044 1,140 2,324	851 509	140 4,827 4,106 9,163	221 15,299 17,230 33,750
1,241	330	1,771	2,344	1,000	91-03	
3,325 2,262 843	9,112 810 1,688	3,920 3,849 561	5,732 8,042 5,327	2,399 10,149 4,223	31,924 31,428 14,624	97,298 85,777 36,202
6,430	11,610	8,330	19,101	16,771	77,976	2,19,277
1,542 149 51  6 7,168 1,686	692 1,562  955 1,004 1,853 1,884	462 13,996 491 738 127 7,167 5,009	1,778  1 78 95 11,726 1,891	671. 50 55 674 3,284 3,893	6,977 15,707 821 1,842 3,154 33,691 16,958	27,585 42,120 863 3,479 6,284 1,14,773 36,408
10,602	7,950	27:990	15,569	8,627	79,150	2,27,512
1,054 1,054 29,274	985 985 985	1,134 43,081	351 1,313 1,664 93,268	85 1,433 1,518 38,099	489 7,773 8,252 2,77,075	25,242 27,400 7,90,115
11,169 23:931 5,670 283 49	8,411 13,425 5,117	21,627 20,501 5,700 1,155 6	 13,408 32,404 8,558  3	15,056 24,161 6,165 18	18,366 81,173 1,35,547 49,740 1,787 62	56,475 2,80,080 3,93,350 1,50,057 10,952 172
41,102	26,953	49,389	54;3 <sup>6</sup> 7	45,400	2,86,675	8,91,096
1,257 4,228 413	., 1,051 2,404 433	1,988 2,867 495	 1,831 6,657 1,249	2.787 2.787 2.938 585	1,722 11,299 22,576 4:397	4,962 40,990 59,49 <b>6</b> 12,302
5,898	3,898	5,350	9:737	б,310	39:994	1,17,750
63 1,265 68	55 720 336 	108 1,323 148  495	129 1,850 52  654	40 1,243  778	993 9,017 1,111  4,676	1,797 31,576 2,686 
1,141	1,594	995 896	952	7,409	4,676 8,876	32,79
3,075	3,481	2,700	3,537	3:470	24,673	63,77
50,075	34,332	57.439	67,741	55,180	3 51,342	10,92,61
79-349	16,169	1,00,520	1,61,009	93,279	6,28,417	18,82,73

# FOREST DEPARTMENT OF THE Account Current for the

### RECEIPTS.

				Amount.	Amount.
				Rs. a. p.	Rs a. p.
ASH BALANCE	444				3 <b>72</b> 0 0
III.—ASSESSED TAXES	•••				
Income Tax—Deductions from salaries					3,085 7 10
	***		- 1		
EVENUE DURING THE FOREST YEAR 1912-13.	***		"	***	9,72,852 13 5
i -interest	***		***	•••	248 6 <b>8</b>
THER CIVIL HEAD	• • •		•••		14 2 8
S. B Deposits-Bank Accounts-General Provident Fu	nđ				3,919 5 0
Personal Deposits-Lady Minto's Nursing Association					<b>44</b> 0 0
OREST DEPOSITS	***			•••	688 8 o
DVANCES RECOVERABLE				***	
			1		137 8 o
House Building Advances Forest Advances	66 P		***	•••	137 8 0 4,14,233 8 11
Objection Book Advances	***		***	•••	6,878 1 3
Hutting Advances on account of Plague . Motor car Advances	***		:::	***	х,333 б o
USPENSE ACCOUNT	41)				1 0 0
ASII REMITTANCES—LOCAL—FOREST REMITT	ANCES.—		1	į	
Discount on sale of Forest Stamps	444				2,554 0 9
Forest cheanes draws	***		•••	***	6,00,648 4 5
Revenue Remittances written back Inter Divisional Transfers	(41		***	11 )	72,175 11 7 4,768 10 2
P W. Remittances, Cash Remittances III, Other Remit	dances B. Iten	ns adjustable by C	Civil.		0 10 0
		Total	•••	1)1	44
Account between India and Central Provinces	NTS.—				
III - Items adjustable by India Forest Officers Pro	vident Funds		***	***	2,977 8 o
General Provident Funds Imperial III.—Items adjustable by India—Miscellaneous	***		***	110	5,301 15 3 1 7 3
IV.—Items adjustable by C. P.—Miscellaneous	***		•••	***	2,255 13 5
Account between Central Provinces and Bengal	1				***
III —Items adjustable by Central Provinces	•••			•••	* 1
IV.—Items adjustable by Bengal	***		***	•••	468
Account between Central Provinces and Bombay III. —Items adjustable by Central Provinces—Misc	ella menus		***	***	2,843 I 6
IV.—Items adjustable by————	***		***	146	2,043 1 0
Account between—and—	***			440	200
Account between Central Provinces and Military Suppl	ly Account				
III - Teams adjustable by Central Provinces	10.7		470	3F0 ***	1,183 5 10
IV.—Items adjustable by Military—Miscellaneous			•••	***	2,300 0 0
Account between Central Provinces			***	,	410
III —Items adjustable by Central Provinces  1V.—Items adjustable by Bombay—Miscellaneou	19 ,,,		]	•••	66 15 (
and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		Total	-		
nter-departmental transfers-		10[8]	•"	POS STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT STATEMENT ST	*** 1
	•				
	400		100	P10	4+b
P. W. Department, Ordinary Branches Rallway Branches	•				***
Military ,, Northern Circle	A14				
Military ,, Rallway Branches Military ,, Northern Circle Eastern , Western			90 6 40 8		4a0
Military ,, Rallway Branches Military ,, Northern Circle Eastern ,, Western ,, Secunderabad Division	454 444 648 648		: ]	***	
Military ,, Rallway Branches Military ,, Northern Circle Eastern ,, Western ,, Secunderabad Division Burma Division	ata ata		401	606 191 E 1918	And RgK 440
Rallway Branches  Northern Circle Eastern Western Secunderabad Division Burna Division Military Supply Post and Telegraph Department	255 255 255 255 255 255 255 255 255 255		700 700 0.22 941 441	***	4=0 194
Rallway Branches  Northern Circle  Eastern  Western  Secunderabad Division  Burna Division  Military Supply	444 644 644 644 644		tos tos gas	; ; ;	4 sa 4 a a 4 a a 4 a a
Rallway Branches  Northern Circle Eastern Western Secunderabad Division Burna Division Military Supply Post and Telegraph Department	255 255 255 255 255 255 255 255 255 255	Total	700 700 0.22 941 441	*** *** } *** } ***	695 6

### [PRESCRIBED].

### NORTHERN CIRCLE, CENTRAL PROVINCES.

Forest year 1912-13.

#### PAYMENTS.

		-	Amount	Amount.	
6		~	Rs a. p.	Rs. a	~
-REFUNDS AND DRAWBACKS	100				٠
Assessed Taxes	***			511 5 2 8	
XPENDITURE DURING THE FOREST YEAR 191			•••		. '
THER CIVIL HEADS		į	***	6,20,812 8	•
S. B Deposits-Bank Accounts General Provident F	and			14 S 363 2	
DREST DEPOSITS	***			£=0 -	
DVANCES RECOVERABLE		1	***	6 <b>78</b> c	, ε
House Building Advances	•••	•••	***	***	
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	••	***	***	300 0	) (
	**		•	4,1 <b>9,606</b> 5	, (
Objection Book Advances	401	***	••	8,128 12	1
Hutting Advances on account of Plague	est.	111	•••	10 0	) (
JSPENSE ACCOUNT	***	4.		28 o	C
ASH REMITTANCES- LOCAL-FOREST REMITT		~ [			
Cash Remittances P W, Remittances A by P W, D.	• • • • • • • • • • • • • • • • • • • •			885 4	g
Cash Remittances ,, R by Civil	***			4 20	) {
Remittances to Treasuries	***			9,20,503 7	,
Unpaid cheques written back	***		***	227 10	
Inter-Divisional Transfers	***			1,996 4	
Forest stamps adjusted	***				•
		T-1-1		26,501 14	
CHANGE ACCOUNT WITH OTHER GOVERNM	TENTO	TOTAL	··· [,		
	ents —	Ì	Į		
Account between India and Contral Provinces III - Items adjustable by India	460 401	***			
IV.—Items adjustable by Central Provinces	444	***	***	350 o 25 o	_
Account between Central Provinces and Burma	41.	•••	,,,	111	Ĭ
III.—Items adjustable by Central Provinces IV.—Items adjustable by Burma	* *		***	,***	
Account between Central Provinces and U P. of Agr	a and Oudh		•••	600 a	0
III.—Items adjustable by Central Provinces IV.—Items adjustable by	40.0	•••	***	13,957 11	0
	-t	"	***		Ī
Account between Central Provinces and Military Supp III — Items adjustable by Central Provinces	111	***			
IV —I tems adjustable by Military Miscellaneous	Payments		***	2,300 O	0
Account between Central Provinces and Bombay III.—Items adjustable by Central Provinces	•••	•••		<b>⊄et</b>	
IV.—Items adjustable by Bombay	41	***	<u>.</u>	80,743 15	
Account between Central Provinces and Military Wood	estern Circle IV. Ite	ms adjustable	{	3,030 0	
		Total			
TER-DEPARTMENTAL TRANSFERS—				***	
P. W. Department, Ordinary Branches	<b>}</b> 00	410	1		
Railway Branches	504	•,,,	***	ap# +>	
, Eastern ,	ete efe	711	age.	<b>#14</b>	
,, ,, Western ,, ,, Secunderabad Division	410	***	• •		
, Burma Division	149	••••}	***	***	
, Military Supply Post and Telegraph Department	***			* *	
Marine Department	***	****	***	2/0	
		Total	a 1 h		
ASH BALANCE	670	Magain.			
	GEAND		O M Is	ووو <del>مارسون باستوست</del> باستوستان بالمساور	
	CRASD	TOTAL .	104	21,01,581 1	1 2

#### RECEIPTS.

				Amount.	Amount.
			-	Rs. 2. p.	Rs. a. p.
ash balance	170				**
III.—ASSESSED TAXES				,41	•••
Income Tax-Deductions from Salaries					3,049 8 3
EVENUE DURING THE MONTH				,	9,53,413 0 7
II—INTEREST					1,023 5 0
THER CIVIL HEADS-(As detailed below)					
S. B - Deposits - Bank Accounts - General Provident Fu	nd Provincial			,	6,280 15 0
XVI-B Law and Justice, Jails, Jail Manufactures, Cent	ral [ai]			***	28 10 0
PERSONAL DEPOSITS-Lady Minto's Nursing Association	-			114	61 0 0
XXXI -Givil Works, Provincial Buildings and Roads				•••	9,225 8 0
FOREST DEPOSITS				***	515 2 6
ADVANCES RECOVERABLE—					
House Building Advances					761 4 0
Porest Advances	***		**,}	***	7,56,458 12 3 5,637 8 0
Objection Book Advances Hutting Advances on account of Plague	***			***	180 0 0
Taxes from Muoicipality	***			***	38 11 4
SUSPENSE ACCOUNT	400				•••
CASH REMITTANCES—LOCAL—FOREST REMITTA	INCES-				
Forest cheques drawn	***			***	6,03,569 12 10
Revenue Remittences written back	***			***	13,333 1 8
Inter-Divisional Transfers Discount on Forest Stamps	1) 4)4		"	***	2,824 11 6
P. W. Department Remittances, (A) Items adjustable by	y Public Works I Civil	Department	***	***	-335 8 0 184 3 5
, , , , , , ,		Total		101	***
EXCHANGE ACCOUNT WITH OTHER GOVERNME	NTS				
Account between India and Central Provinces	***			***	the
III.—Itéms adjustable by India (General Provident (Forest Officers' Pro	Fund Imperial)		•••	7,711 7 0	8,881 7 0
IV.—Items adjustable by Central Provinces	Arcient Launi)			1,170 0 0	7,815 6 5
Account between Central Provinces and Bengal III.—Items adjustable by Central Provinces	110		***	***	"
IV.—Items adjustable by Bengal	11			***	
Account between——and— 111.—Items adjustable by Central Provinces	11.		***	***	111
IV.—Items adjustable by—	164		***	) 10 t	
Account between—and—				bef	141
Account between Central Provinces and Military III.—Items adjustable by Military Supply Account	0.6 ().		7".	***	
Items adjustable by Civil	P14			40*	1,352 2 0
IVItems adjustable by Account between Central Provinces and	tag tag		,,,	412	
III.—Items adjustable by Central Provinces IV.—Items adjustable by—	) to		***	30 P	101
14. Septim realization of	•••	Total		***	
INTER-DEPARTMENTAL TRANSFERS-					PARTY SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION
P. W. Department Ordinary Branches	*1*		***		,
Railway Branches	45		***		
Military Northern Circle	44		114 PA1	***	**
, Western ,	#15		•••	41*	
n Seconderabad Division Burma Division	TTO DVs		** : ***	440	4.1
Military Supply	Para Para		411	111	
Post and Telegraph Department	***		4**	679 1 7 21 8 10 5 4 9	705 15 4
• ,		Total		2 7 3	**
7	A		144		An Ang an ag
, ,	Grand	TOTAL	***	**	23,72,838 5 4

### [PRESCRIBED].—(Contd.)

### SOUTHERN CIRCLE, CENTRAL PROVINCES.

Forest year 1912-13.

#### PAYMENTS.

			Amount,	Amount.
		-	Rs. a. 1	p. Rs a. p.
REFUNDS AND DRAWBACKS	.19		***	3,992 5 5
REFUNDS AND DRAWBACKS  XPENDITURE DURING THE MONTH	pe4		•10	6,33,501 9 9
XPENDITU'L DURING THE MONTE		Ì		
THE A CIVII. HEADS (As detailed below):—  S. B. Deposits—Bank Accounts—General Provident S	Fund Provincial		. •	494 5 9
	104		***	186 8 0
OREST DEPOSITS	•••	941		•••
DVANCES PECOVERABLE			108	1,720 0 0
House Building Advances	64		***	7,45,755 12 0
Forest Advances	•••	,,,,		5,587 2 8
Objection Book Advances	***		***	89 0 0
Hutting Advances on account of Plugue	110	401	1	
SUSPENSE ACCOUNT	111 mm 4 31677 ()	•••		
CASH REMITTANCES - LOCAL - FOREST REMI	TTANCES-			8,93,210 7 10
Remittances to Treasuries	493	***	•••	
Unpaid chrques written back	•••		•	9,697 5 1
Inter-Divisional Transfers	141	1111	••	9,450 15 4
Cash Remittances III, Other Remittances (A) Item	s adjustable by P	. W. Department	•1•	17 9 6
Do. Do. (B) Items	adjustable by Ci	vil Department	***	44,682 14 3
Forest Stamps adjusted		4 ***		
		Total	111	
EXCHANGE ACCOUNTS WITH OTHER GOVE	rnments.		<u> </u>	
Account between India and Central Provinces	•••	•11		""
Iti Items adjustable by India	154	••	,	3,750 0 0
IV.—Items adjustable by Central Provinces				13,320 0 0
Account between Central Provinces and Bengal	£10	41	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	int
111.—Items adjustable by Central Provinces	***	•1		••
IV —Items adjustable by Bengal—Miscellaneou	119	•		258 1 7
Account between Central Provinces and—	144			•**
Account between Central Provinces III.—Items adjustable by Central Provinces	***	4		•••
III,—Items adjustable by Military—Miscellane				2,000 0 0
IV,—Items adjustable by Ministry—Ministry				•1•
Account between Central Provinces and-	d Bomber		***	001
III.—Items edjustable by Central Provinces an	tt Dominay		***	860 14 0
IV,—Items adjustable by Bombay—Miscelland			***	101
Account between Central Provinces and-	***			101
III.—Items adjustable by Contral Provinces	***			111
IV.—Items adjustable by—	• •	#S-1-3	***	
		Total	***	
INTER-DEPARTMENTAL TRANSFERS—				•••
The Department, Ordinary Branches	919 348		111	
Railway Branches Military Northern Circle	ete.			1 199
n Western	ac)			***
" Secundetabad Division	* *		***	
" Military Supply	***		4-1	Day Day
Post and Telegraph Department	ete ete		10)	B+ F
Marine Department		Total	***	23,68,574 15
	161		*1	4,263 6
CASH BALANCE		GRAND TOTAL	***	23,72,838 5

### FOREST DEPARTMENT OF THE

Account Current for the

### RECEIPTS.

				Amount,	Amount,
				Rs. a. p.	Rs. a. p.
ASH BALANCE	•••				000
III.—ASSESSED TAXES	11.5			<b>6.0</b>	
Income Tax—Deductions from salaries	***		•••	***	2,496 10 3
EVENUE DURING THE YEAR				***	11,95,622 6 1
I.—INTEREST	***			***	330 4 8
General Provident Fund Provincial	***		444		6,571 2 3
THER CIVIL HEADS—(As detailed below) ·	***				100
•		Dani of Buildings	1		12 2 2
XXXI.—Provincial Civil Works. In charge of P W		Rent of Dundings	- 1		4,289 7 10
DREST DEPOSITS.			***		22 10 3
PERSONAL DEPOSITS—Lady Minto's Nursing F	und Transa	Criom		47 11 8	
DVANCES RECOVERABLE	***		***	77	
Hutting Advances Forest Advances	443			5,72,031 4 3 6,123 7 10	5,78,208 7 9
Objection Book Advances	444				37 8 0
USPENSE ACCOUNT .	e18				
				***	111
ROVINCIAL ADVANCES AND LOAN ACCOUNT	***		34,		100
AKAVI ADVANCES					489
ASH REMITTANCES LOCAL-FOREST REMITT	ANCES.				
Forest cheque drawn	404			5,83,229 1 4	***
Revenue Remittances written back	***			200	699 F84
Inter divisional Transfers Discount on sale of Forest Stamps	***		***	3,437 0 0 1,603 1 6	100
		Total	E11	101	5,88,271 2 10
XCHANGE ACCOUNT WITH OTHER GOVERNM	ENTO				
			***		
Account between India and Central Provinces III.—Items adjustable by India	140		**	8,330 1# 0	***
IV —Items adjustable by Central Provinces Account between Central Provinces and Bengal	***		•••	4,276 15 2	***
III.—Items adjustable by Central Provinces	840 848			800	989
IV —Items adjustable by Bengal Account between Central Provinces and Bombay	***		•••	•••	919
III Items adjustable by Central Provinces	946 811		***	3,262 14 3	001
IV.—Items adjustable by — Account between Central Provinces and—	**		***	198	***
III.—Items adjustable by Central Provinces—	<b>9</b> 4 <b>9</b>			***	141
IV.—Items adjustable by— Account between Central Provinces and—	444		***	410	e2.0 ¥1.6
III.—Items adjustable by Central Provinces	814 bre		***	600	149
IV.—items adjustable by—	tre		***	***	***************************************
		Total		ery	15,870 9 5
INTER-DEPARTMENTAL TRANSFERS—					
P. W. Department, Ordinary Branches Railway Branches	••• 154		***	919 113	#1 <b>*</b>
Military , Northern Command	***		•••	100	
Account between Central Provinces and Western	Circle		***	 56 o o	***
s Secundrabad Division	ati Ottore		[	1,148 5 4	404
, Burma Division Account between Central Provinces and Military	100		•**	949	***
Military Supply Account (III)-Items Adjustable	by Civil		gas pds	filo efo	410
Telegraph Department Post Office Department	***		***	667 14 0	419 240
Marine Department	***		***	907 14 0	170
		MT . 4	-		1,872 3
		Total	941	\$79	-101- 3

### [PRESCRIBED].—(Concld.)

### CENTRAL PROVINCES, BERAR CIRCLE.

### Forest year 1912-13.

#### PAYMENTS.

				Amount	Amount.
				Re a. p.	Rs. a. p.
REFUNDS AND DRAWBACKS	***				253 0 3
XPENDITURE DURING THE YEAR	***		]	***	6,28,416 15 3
THER CIVIL HEADS—(As detailed below) -	***			100	***
32Miscellaneous charges for attending Department	al Examination	n		•••	46 8 0
General Provident Fund Provincial	***			***	1,482 14 10
OREST DEPOSITS	411				4,131 5 6
ERSONAL DEPOSITS -Lady Minto's Nursing Fund			<b></b>	***	
ADVANCES RECOVERABLE	410				110
Forest Advances	401			5,51,456 0 10	484
Objection Book Advances	-			6,542 2 0	B/10
Hutting Advances	111			10 0 0	5,58,008 2 10
USPENSE ACCOUNT	***				239 4 6
DSFENSE ACCOUNT	***				111
ROVINCIAL ADVANCE AND LOAN ACCOUNT	•••				619
Takavi Advances	***			110	401
ASH REMITTANCES-LOCAL-FOREST REMIT					
Remittances to Treasuries Unpaid cheques written back	***			11,21,575 6 1 500 0 0	648 pad
Inter Divisional Transfers	***		•••	4,977 0 0	100
Forest Stamps adjusted	114		***	23,358 7 9	
		Total	""	***	11,50,410 13 10
XCHANGE ACCOUNT WITH OTHER GOVERNM	ents				
Account between India and Central Provinces	***		•••	•••	414
III.—Items adjustable by India				750 0 0	•••
IV-Items adjustable by Central Provinces	***		•••	4000	***
Account between Central Provinces and Bengal	***		•••	···	•••
III Items adjustable by Central Provinces	***			***	411
IVItems adjustable by Bengal	***			***	***
Account between Central Provinces and Bombay	***		•••	•••	190
IIIItems adjustable by Central Provinces	tes.		)	101	148
IV.—Items adjustable by Bombay	***			48,635 15 10	••
Account between Central Provinces and-	***		44.	***	***
III Items ajdustable by Central Provinces				•••	•••
IV.—Items adjustable by—				•1•	***
avenue dejudición dy		Total	-		49,425 15 10
		40101	•"	414 	49/7-5
NTREDEPARTMENTAL TRANSFERS—	414		200		1
P. W. Remittances III.—Other Remittances (A) Items adjusted by P. W.	Department			910 930	1,189 10 0
P. W. Department, Ordinary Branches	149			421	/ND
Railway Branches Military Department, Northern Command	***		***	910	***
" " Kastern "	***		•••	965	11
" Secunderabad Division	***		***	200	
Burma Division Telegraph Department	***	•		***	***
Post Office Department	11		***	40	.,,
Marine Department	***		400	100 Laborité Milliagraphia de Laborité de Laborité de Laborité de Laborité de Laborité de Laborité de Laborité de L	
		Total	***		***
		GRAND TOTAL	***	Also	23,93,604 10 10

# Annual Form No. 26.—Revenue received and outstandings on account of Revenue during 1912-13.

• Diemon	Part cu' tre	Out finding at commence- ment of v ar	laine of sake todether revenue during reat.	letd	Amount realised curing year.	Balance due to Depart- ment at and of year.	Remarks
1	2	3	4	5	6	7	8
		Rs a p	Rra. p.	R4 p	Re. a p	Rs. a, p.	Column 6 includes the following amounts—
NORTHERN CIRCLE.		gefa ta B	307 er 9 8	2,15,107 \$ 4	1,93,542 2 9	21,765 2 7	A - Amounts deducted as cor- nection of entries accounts
Mandin (a) (N 1th and South excluding Dheaw hi Rang - ubbullore Varenghpur (b) (11-		1,1,46 1 to	1,01,732 13 7	1,04,579 1 1	1,02,075 15 4	2,320 I 9	B ←Amounts written off as irrecoverable.
chiding Dhanwahi Rang)	441	36,, 10 2 3	£9,954 S 8	1,26,484 7 41	1,01,8,0 8 11	24,603 15 0	A, B. R · 2, p. Rs. 3, p.
		<b>*,94</b> 6 12 5	1,2( 775 1 8	1,29,71 14 1	1,28,381 11 11	1,340 2 2	Re 2, p. Re, 3, p. (a) 170 15 9 73 5 3
	-	, y4 14 10	1 62 451 \$ 11	1,64,06 4 9	1,6 ,9,5 9 10	860 10 ts	(6) 5 0 0 74 1 9
Hosbange's d (e)	÷ 448	1811 12 0	1,* ,100 I	1,22 012 10 1	1,21,6)1 0 0	1,227 10 1	(d) 193 to 0 12 0 0 (d) 18 0 0 3 7 8
Seont (f)		1,50, 5 4	1,0,1510 11 2	1,65,012 0 6	1,62,701 6 10	2,310 9 8	(e) 497 10 6 .
Chhindwara (e) -				1,03,1012			(f) 25 5 0 27 2 9 (p) 107 11 6 130 8 g
	Total .	1.85, 15 O	9 72,,11 12 9	10,28 87,1 11 9	9,71,451 7 7	54,322 4 9	1,116 4 9 6t4 19 9
SOUTHERN CIRCLE	•						
Direction	Miscellaneous	k)	402 \$ 3	109 \$ 3	109 \$ 3	"	
Halsghat	Limber and other produce .	0 و1 0ارد	1,5 < 616 13 6	1,54,917 11 6	3,51,545 \$ 6	402 0 0	Includes Rs. 980-5-8 written off as irrecoverable,
Balaghat Forest School	Muse II meons	***	528 11 10	21, 11 10	528 11 10		
Bhandara	Timber and other produce	•	1 11,170 14 11	3,13,370 34 11	1,11,175 14 11		
Bilaspur	י ים		69,778 8 0	69,779 6 0	69,490 T4 9	257 7 5	
North Chauda	Do	g,782 I 7	1,61,548 4 7	1,68 330 6 2	1,58,061 7 1	10,368 15 3	Includes Rs a8-0-9 written of as irrecoverable.
South Chanda	Do «	1,549 14 (	1 72,180 / 5	1,73,739 5 11	x,71,219 6 5	2,519 15 6	Includes Rs. 200-15 8 written of as irrecoverable.
Nagpur-Wardha	Do. "	1,207 \$ c	1,73,833 6 10	1,75,035 14 10	x,74,719 6 10	316 % 0	
Rappur	Do .	r,262 13 4	1,16,99; 4 7	1,18,217 1 9	* 1,1 1,436 14 4	3,810 3 5	Includes Rs. 27-8-3 written of as irrecoverable.
	Lotal .	8,128 4 3	9,64,059 9 21	9,72,187 74 2	9 5 1,583 6 21	17,605 7 3	
BERAR CINCLE.							•
Direction	bales of timber and other forest produce and mis cell ancous sources.		1,528 7 o	1,528 7 0	1,528 7	,,	
Meighat	Do.	9,134 2	1,49,882 14 10	1,50,017 6 10	1,43,894 8 10	15,121 \$ 0	
Amraoti	Do.	100 0	0 1,41,834 7	I,41,984 7 4	1,78,953 3	4 3,981 4 0	
Buklana .	Do.		τ,0),18¢ 6 <u>3</u>	2,09,181 6 3	1,09,068 16	\$ 239 IX 10	
Yeomtal	Do.	5,818 0	2,52,007 8 5	2,57,825 8 5	2,57,825 8	s	
Akola	Do.	220 0	o	1,18,785 1 8	1,18,705 I	8 8000	
Nimgr	. Do.		2,75 457 4	2,75,457 4 3	a,75,26g a	1 188 n	
Betal .	, Do	a,785 c	3 1,48,293 12 1	1,50,459 12	7,50,777 12	4 82 0	-
	The state of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the s		9 11,96,740 19 4	-			7
* !	GRAND TOTAL C,	E. 81,450 \$	6 52,35,770 4 1	23/12'230 6 15	31,24,756 4	7 ga_464 5	1 -

\*Nors.—Thete is a difference of Rs. 68 between this figure and that shown is Compireller's Samulary winch is due to a Refund of Rs. 68 charged in the Treasury accounts at the Raigur Division for March lines.

Raigur, and is a difference of Rs. 68 between this figure and that Christian Francisco.

FORM NO. 27.—[PRESCRIBED].—Outstandings and Liabilities on account of Contractors and Disbursers for the Forest year 1912-13.

		Department Debt		De	ep irtment Credit	or.	Baland	e due.	
Division	At com- mencement of year.	Recoveries in each and value of supplies and wirk done during the year	At close of year,	At commence- ment of year	Payments made during the year.	At close of year,	Fo Department (Outstanding).	By Nevartment (Liabilities).	Remarks,
1	2	1	4	5	6	7	8	9	Io
NORTHERN (IRCL)	Rs. a. p	Re. a, p.	Rs. a p.	Rs. a. p	Rs. a. p.	Rs. 2. p.	Rs. a. p.	Rs. a. p	
		81041 6 9	83, <b>0</b> 41 6 9	9,987 13 10	80,464 O 10	90,449 14 8	7,408 7 11	<b></b>	
lo drgandeol							380 g g (a)		
nhbulpore		39,416 7 2	19,446 7 2	552 10 4	39,274 6 7	39 827 0 11		l	
arsinghpur .		10,5% \$ 5	10,580 \$ \$	856 9 11	10,662 2 1	11,518 12 0	93 <sup>9</sup> 6 7 (8)		
e com		46 441 11 0	46,441 11 0	1,249 13 2	46,931 12 7	48,081 g g	1,639 14 9	***	
Direction	"	7,823 10 6	3,82 <u>3</u> in <b>6</b>	22 15 4	7,079 7 7	4,001 6 7	177 12 1	•••	
hhindwar t	•	38,494 15 9	39,494 15 g	1,622 15 10	39,808 4 1	41,431 3 31	2,935 4 2		
angor		\$1091 0 8	\$1,081 o 8	1,1 <u>53</u> 12   9	\$1,441 14 1	\$3,595 11 0	1,514 10 4	***	
landla		51875 13 5	53,875 13 5	3,388 \$ 11	62,946 9 3	66,774 15 2	*12,499 1 9(c)	ppa	*On the grat Ma
Yorth Mandia		17,\$60 I 7	17,560 1 7	***	11 886 9 7	11,886 9 7	-5,673 8 o(d)		Due to recoveries
South Mandia		77 242 3 9	17,242 3 9	848	18,946 1 11	18,046 1 11	1,703 14 2 (d)	80-	made from Mandla Davisle
3 otal		4,11,213 8 11	4,14,233 8 11	19,597 8 7	4,19,606 5 o	4,39,201 13 7	24,970 4 8	***	
••••	<u> </u>	4,11,2 1 6 11	4.41.33		49793000 3 0	4,77,27111	**1970 4 0		
SOUTHERN CHELL									
Orrection	"  '	17,404 13 8	17.404 13 8	135 3 4	17,774 1 2	17910 4 6	go5 6 10	>>8	
•	"  ''	1,28,931 12 10	1,28,231 12 10	13,972 9 10	1,27,462 1 8	1,41,434 11 6	13,202 14 8		
•	"	22,877 0 11	22,877 0 11	-3,0,8 3 2	32,466 10 5	19,518 7 3		<b>−3,358</b> 9 8	
Shandara	" '	66,438 0 0	66,438 a 0	1,137 11 7	66,316 1 2	67,357 19 9	915 12 9	111	
gifabat		67,262 9 6	67,262 2 6	5,0\$3 4 8	67,023 17 0	72,076 15 3	4,BI4 I2 9	P74	
North Chanda		1,39,949 13 0	1,39,949 13 0	4,217 11 5	1,41,508 13 6	1,45,726 8 81	5,776 11 11		
South Chanda		1,01,448 2 1	1,03448 2 1	17,735 4 1	96,379 5 7	I,T4,T15 9 4	10,667 7 3	•••	
lagpur-Wardha		89,941 9 I	8 <b>9.</b> 941 9 1	8,604 1 8	86,3(7 4 0	94,961 5 8	\$,019 I2 7	BHF	
Raiper		1,20,905 6 2	1,20,005 6 2	4,747 32 1	1,20,457 11 10	1,24,215 7 11	4,310 I g		
Intal		7,56 458 20 3	7,46,448 12 3	\$7,557 7 1	7,45,75\$ 12 0	7,98,713 3 I	45 213 0 6	-3,358 9 8	
									1
BBRAR CIRCLE. Direction		87,404 4 3	20,404 4 3	200 d d	20,421 \$ 2	20,697 10 8	923 7 6		
A mraeti		42,767 I 6	42,767 I 6	1,896 1 6	49,883 12 4	44,781 15 10	5,014 12 4	809	1
Velghat	ı	68,185 1 1	68,185 I I	т,881 с з				1	1
Yeotmal	"				73,892 13 11	75,704 14 2	7,519 13 1		
	'   ''	81,446 9 0	81,445 9 0	2,367 9 2		82,479 15 10	1,024 6 10		
Akola Maria	" "	47,2T2 g r				47,558 1 10			
Bi kul	" "	84,801 \$ \$	84,801 5 5	7,857 6 8	ļ	90,718 8 10	\$ <sub>1</sub> 917 3 \$		
Baldava	' "	46,8r4 2 g	56,814 2 2	4,499 4 8	65,726 9 8	70,225 23 27	3,411 11 9	•"	
Nimar Total	"	1 69,400 7 10	-			<del></del>			
GRAND TOTAL C	P	\$,72,031 4 3 17,42,723 9 8	5,72,031 4 5			18,50,650 10 10			-1

<sup>(</sup>a) Represent figures of the Jubbulpare Division for the whole year and those of the Narsinghpur Division for 3 months April—June 1913.

(b) Represent figures up to 31st March 1913.

(c) Do. do. do.

(d) Represent figures for months Law Tennants